

Configuration Guide for Google CES
Call Recording Using Ribbon SWe Core
SBC V12.01.07R000



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1 Audience

This document is intended for the SIP Trunk customer's technical staff and Value-Added Reseller (VAR) having installation and operational responsibilities.

1.1 Introduction

This configuration guide describes configuration steps for **Google CES Call Recording** using **Ribbon SWe Core SBC V12.01.07R000**

1.1.1 TekVizion Labs

TekVizion Labs™ is an independent testing and verification facility offered by TekVizion, Inc. TekVizion Labs offers several types of testing services including:

- Remote Testing – provides secure, remote access to certain products in TekVizion Labs for pre-Verification and ad hoc testing.
- Verification Testing – Verification of interoperability performed on-site at TekVizion Labs between two products or in a multi-vendor configuration.
- Product Assessment – independent assessment and verification of product functionality, interface usability, assessment of differentiating features as well as suggestions for added functionality, stress, and performance testing, etc.

TekVizion is a systems integrator specifically dedicated to the telecommunications industry. Our core services include consulting/solution design, interoperability/Verification testing, integration, custom software development and solution support services. Our services help service providers achieve a smooth transition to packet-voice networks, speeding delivery of integrated services. While we have expertise covering a wide range of technologies, we have extensive experience surrounding our practice areas which include SIP Trunking, Packet Voice, Service Delivery, and Integrated Services.

The TekVizion team brings together experience from the leading service providers and vendors in telecom. Our unique expertise includes legacy switching services and platforms, and unparalleled product knowledge, interoperability, and integration experience on a vast array of VoIP and other next-generation products. We rely on this combined experience to do what we do best: help our clients advance the rollout of services that excite customers and result in new revenues for the bottom line. TekVizion leverages this real-world, multi-vendor integration and test experience and proven processes to offer services to vendors, network operators, enhanced service providers, large enterprises and other professional services firms. TekVizion's headquarters, along with a state-of-the-art test lab and Executive Briefing Center, is located in Plano, Texas.

For more information on TekVizion and its practice areas, please visit [TekVizion Labs website](#).

2 SIP Trunking Network Components

The network for the SIP Trunk reference configuration is illustrated below and is representative of Google CES Call Recording with Ribbon SWe Core SBC V12.01.07R000 configuration.

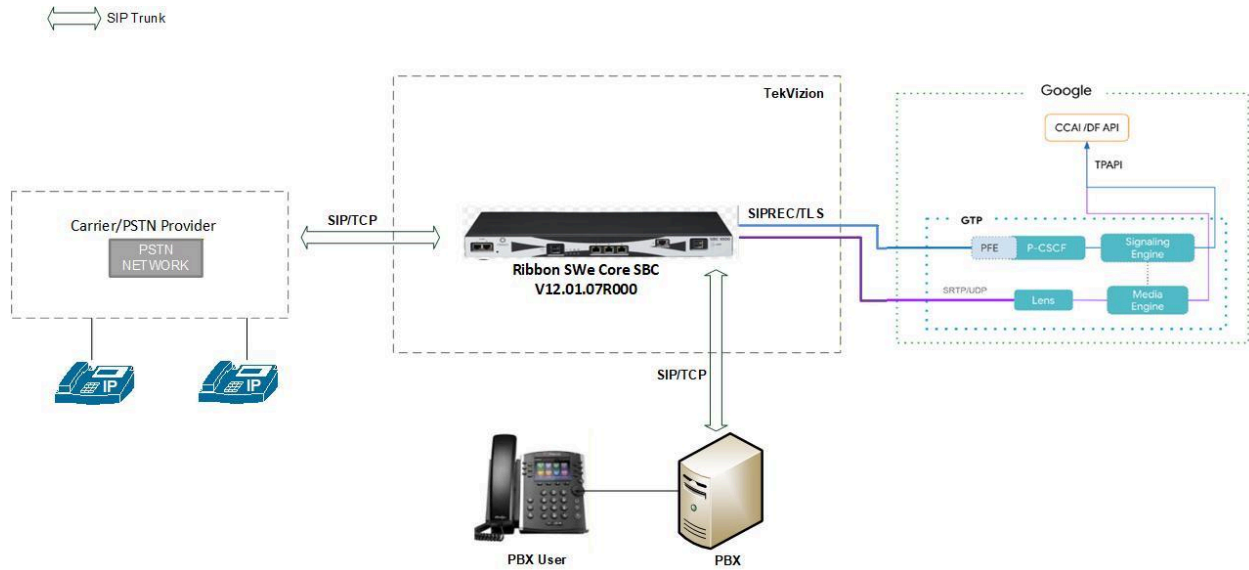


Figure 1: SIP Trunk Lab Reference Network

The lab network consists of the following components.

- Google CES Cloud Environment
- Ribbon SWe Core SBC V12.01.07R000
- OnPrem PBX
- PSTN Gateway

3 Hardware Components

- Ribbon SWe Core SBC running on ESXi version 6.7.0

4 Software Requirements

- Ribbon SWe Core SBC version: V12.01.07R000

5 Google CES Certified Ribbon SWe Core Versions

Table 1 – Google CES Certified Ribbon SWe Core SBC Version

Google CES Certified Ribbon SWe Core SBC Version	
Ribbon SWe Core SBC	V12.01.07R000
Ribbon SWe Core SBC	V11.01.01R005
Ribbon SWe Core SBC	V09.02.05R000

6 Features

6.1 Features tested for Google CES Call Recording

- Basic Inbound calls
- Call Hold and Resume
- Call Transfer
- Conference

6.2 Features Not tested for Google CES Call Recording

- None

6.3 Caveats and Limitations

DTLS	DTLS towards Google CES is not tested
------	---------------------------------------

6.4 Failed Testcase

- None

7 Configuration

7.1 Configuration Checklist

Below are the steps that are required to configure Ribbon SWe Core SBC.

Table 1 – Ribbon SWe Core SBC Configuration Steps

Step	Description	Reference
Step 1	Login to Ribbon SWe Core SBC	Section 7.4.1
Step 2	Interface Group	Section 7.4.2
Step 3	Zone	Section 7.4.3
Step 4	SIP Signaling Port	Section 7.4.4
Step 5	SIP Trunk Group	Section 7.4.5
Step 6	IP Peer	Section 7.4.6
Step 7	PathCheck profile	Section 7.4.7
Step 8	Signaling Profile	Section 7.4.8
Step 9	Codec	Section 7.4.9
Step 10	Packet Service Profile	Section 7.4.10
Step 11	Static Route	Section 7.4.11
Step 12	Routing Label	Section 7.4.12
Step 13	Route	Section 7.4.13
Step 14	SIP Message Manipulations	Section 7.4.14
Step 15	SIP Message Manipulation for Participation Label	Section 7.4.15
Step 16	SRS Group profile	Section 7.4.16
Step 17	SRS Group Cluster	Section 7.4.17
Step 18	Call Recording criteria	Section 7.4.18
Step 19	SIPREC using TLS as Transport	Section 7.4.19

7.2 IP Address Worksheet

The specific values listed in the table below and in subsequent sections are used in the lab configuration described in this document are for **illustrative purposes only**.

Table 3 - IP Address Worksheet

Component	IP Address
Google CES	
Signaling	us.telephony.goog:5672
Media	74.125.X.X
OnPrem PBX	
LAN IP Address	10.80.X.X
Ribbon SWe Core SBC	
LAN IP Address	10.80.X.X
WAN IP Address	192.65.X.X

7.3 Google CES API Configuration

Below link can be referred for troubleshooting Google CES API configuration for Call recording.

<https://docs.cloud.google.com/contact-center/insights/docs/troubleshooting>

7.4 Ribbon SWe Core SBC Configuration

The following is the configuration of Ribbon SWe Core SBC for Google CES Call Recording.

7.4.1 Login to Ribbon SWe Core SBC

- Log into Ribbon SWe Core SBC via SSH using its Management IP Address
- Enter the credentials.
- To enter configuration mode, Type “configure”, and press Enter.
- Configuration is performed in Ribbon SWe Core SBC using the commands listed in the various sections below.

```
admin@iopsbc2> swinfo -v
=====
SERVER:          iopsbc2
OS:              V11.01.00-R000
EMA:             V12.01.07-R000
SBC:             V12.01.07-R000
SBC Type:        isbc
HA mode:         1to1
=====
Installed host role:  active
Current  host role:  active
=====
Build Workspace: jenkinsbuild.tx.sbx1217x
Stream: //sbx/v12_01_7x
Change: 585331
CTP Change: 582969
Build Number: 1145
Build Time: Mon Sep 29 11:27:02 CDT 2025
Build Host: bulldev1-tx
SBC Version: V12.01.07-R000
Required BMC Version: v03.28.00-R000
Required BIOS Version: v2.7.0
Required OS Version: 11.01.00-R000
Required Bluefin BMC Version: v03.28.00-R000
Required Bluefin BIOS Version: v2.14.0
Required Yellowfin BMC Version: v03.28.00-R000
Required Yellowfin BIOS Version: v1.18.0
=====
```

Figure 2: Ribbon SWe Core SBC Login

7.4.2 Interface Group

Configure interface towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

Ribbon WAN:

- The interface designated towards Google CES is named LIF2

```
set addressContext default ipInterfaceGroup LIF2 ipInterface PKT1_V4 ceName RIBBONCORE
set addressContext default ipInterfaceGroup LIF2 ipInterface PKT1_V4 portName pkt1
set addressContext default ipInterfaceGroup LIF2 ipInterface PKT1_V4 ipAddress 192.65.X.X
set addressContext default ipInterfaceGroup LIF2 ipInterface PKT1_V4 prefix 25
set addressContext default ipInterfaceGroup LIF2 ipInterface PKT1_V4 mode inService
set addressContext default ipInterfaceGroup LIF2 ipInterface PKT1_V4 action force
set addressContext default ipInterfaceGroup LIF2 ipInterface PKT1_V4 state enabled
commit
```

Ribbon LAN:

- The interface designated towards PSTN Gateway and OnPrem PBX are named as LIF1

```
set addressContext default ipInterfaceGroup LIF1 ipInterface PKT0_V4 ceName RIBBONCORE
set addressContext default ipInterfaceGroup LIF1 ipInterface PKT0_V4 portName pkt0
set addressContext default ipInterfaceGroup LIF1 ipInterface PKT0_V4 ipAddress 10.80.X.X
set addressContext default ipInterfaceGroup LIF1 ipInterface PKT0_V4 prefix 24
set addressContext default ipInterfaceGroup LIF1 ipInterface PKT0_V4 mode inService
set addressContext default ipInterfaceGroup LIF1 ipInterface PKT0_V4 action force
set addressContext default ipInterfaceGroup LIF1 ipInterface PKT0_V4 state enabled
commit
```

7.4.3 Zone

Configure Zone towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

OnPrem PBX:

```
set addressContext default zone PBX_CCAI id 5
commit
```

PSTN Gateway:

```
set addressContext default zone PSTN id 4
commit
```

Google CES:

```
set addressContext default zone GOOGLE id 6
commit
```

7.4.4 SIP Signaling port

- Configure SIP Signaling port towards Google CES, OnPrem PBX and PSTN Gateway as shown below.
- The SIP Signaling port designated towards OnPrem PBX and PSTN is named **LIF1**

OnPrem PBX:

```
set addressContext default zone PBX_CCAI sipSigPort 5 ipInterfaceGroupName LIF1
set addressContext default zone PBX_CCAI sipSigPort 5 ipAddressV4 10.80.X.X
set addressContext default zone PBX_CCAI sipSigPort 5 portNumber 5060
set addressContext default zone PBX_CCAI sipSigPort 5 mode inService
set addressContext default zone PBX_CCAI sipSigPort 5 state enabled
set addressContext default zone PBX_CCAI sipSigPort 5 transportProtocolsAllowed sip-tcp
commit
```

PSTN Gateway:

```
set addressContext default zone PSTN sipSigPort 2 ipInterfaceGroupName LIF1
set addressContext default zone PSTN sipSigPort 2 ipAddressV4 10.80.X.X
set addressContext default zone PSTN sipSigPort 2 portNumber 5064
set addressContext default zone PSTN sipSigPort 2 mode inService
set addressContext default zone PSTN sipSigPort 2 state enabled
set addressContext default zone PSTN sipSigPort 2 transportProtocolsAllowed sip-tcp
commit
```

Google CES:

The SIP Signaling port designated towards OnPrem PBX and PSTN is named **LIF2**

```
set addressContext default zone GOOGLE sipSigPort 6 ipInterfaceGroupName LIF2
set addressContext default zone GOOGLE sipSigPort 6 ipAddressV4 192.65.X.X
set addressContext default zone GOOGLE sipSigPort 6 portNumber 5060
set addressContext default zone GOOGLE sipSigPort 6 mode inService
set addressContext default zone GOOGLE sipSigPort 6 state enabled
set addressContext default zone GOOGLE sipSigPort 6 siprec enabled
set addressContext default zone GOOGLE sipSigPort 6 tlsProfileName TLS_PROF
set addressContext default zone GOOGLE sipSigPort 6 transportProtocolsAllowed sip-tls-tcp
set addressContext default zone GOOGLE sipSigPort 6 tcpKeepaliveTime 60
set addressContext default zone GOOGLE sipSigPort 6 tcpKeepaliveInterval 60
set addressContext default zone GOOGLE sipSigPort 6 tcpKeepaliveProbes 2
commit
```

7.4.5 SIP Trunk Group

Configure SIP Trunk group towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

OnPrem PBX:

```
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG state enabled
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG mode inService
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy carrier 0000
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy country 1
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy localizationVariant
northAmerica
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy
tgiPVersionPreference both-ipv4-and-ipv6
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy preferredIdentity
disable
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy
digitParameterHandling numberingPlan NANP_ACCESS
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy callRouting
elementRoutingPriority DEFAULT_IP
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy media
packetServiceProfile CCAI_PSP
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy services
classOfService DEFAULT_IP
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy signaling
ipSignalingProfile PBX_IPSP
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy
featureControlProfile DEFAULT_IP
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy ingress flags
hdPreferredRouting disable
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG policy ingress flags
hdSupportedRouting disable
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG signaling timers
sessionKeepalive 1800
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG signaling
transportPreference preference1 tcp
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG media
medialpInterfaceGroupName LIF1
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG media recordable enabled
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG media earlyMedia method
pEarlyMedia
```

```
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG media earlyMedia
egressSupport disabled
set addressContext default zone PBX_CCAI sipTrunkGroup PBX_TG ingressIpPrefix 10.80.X.X 32
commit
```

PSTN Gateway:

```
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK state enabled
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK mode inService
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy carrier 0000
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy country 1
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy localizationVariant
northAmerica
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy
tgiPVersionPreference both-ipv4-and-ipv6
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy preferredIdentity
disable
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy
digitParameterHandling numberingPlan NANP_ACCESS
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy callRouting
elementRoutingPriority DEFAULT_IP
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy media
packetServiceProfile DEFAULT
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy services
classOfService DEFAULT_IP
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy signaling
ipSignalingProfile PSTN_IPSP
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy
featureControlProfile DEFAULT_IP
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy ingress flags
hdPreferredRouting disable
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK policy ingress flags
hdSupportedRouting disable
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK signaling
transportPreference preference1 tcp
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK media
mediaIpInterfaceGroupName LIF1
set addressContext default zone PSTN sipTrunkGroup PSTN_TRUNK ingressIpPrefix 10.64.X.X
32
commit
```

Google CES:

```
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG state enabled
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG mode inService
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy carrier 0000
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy country 1
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy
localizationVariant northAmerica
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy
tgiPVersionPreference both-ipv4-and-ipv6
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy
preferredIdentity disable
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy
digitParameterHandling numberingPlan NANP_ACCESS
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy callRouting
elementRoutingPriority DEFAULT_IP
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy media
packetServiceProfile GOOGLE_PSP
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy services
classOfService DEFAULT_IP
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy signaling
ipSignalingProfile GOOGLE_IPSP
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy
featureControlProfile DEFAULT_IP
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy ingress flags
hdPreferredRouting disable
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG policy ingress flags
hdSupportedRouting disable
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG signaling
messageManipulation outputAdapterProfile GOOGLE_REC
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG signaling methods
options allow
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG signaling timers
sessionKeepalive 1800
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG signaling timers
nonNatKeepAliveTimer 60
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG signaling timers
sessionMinSE 90
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG signaling
transportPreference preference1 tls-tcp
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG services natTraversal
tcpKeepaliveTimer 240
```



```
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG media
dtlsProfileName byotDTLS
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG media
medialpInterfaceGroupName LIF2
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG ingressIpPrefix 0.0.0.0
0
set addressContext default zone GOOGLE sipTrunkGroup GOOGLE_TG ingressIpPrefix 0.0.0.0
32
commit
```

7.4.6 IP Peer

Configure IP Peer towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

OnPrem PBX:

```
set addressContext default zone PBX_CCAI ipPeer PBX_IPP ipAddress 10.80.X.X
set addressContext default zone PBX_CCAI ipPeer PBX_IPP ipPort 5060
set addressContext default zone PBX_CCAI ipPeer PBX_IPP defaultForIp true
set addressContext default zone PBX_CCAI ipPeer PBX_IPP policy description ""
set addressContext default zone PBX_CCAI ipPeer PBX_IPP policy sip fqdn ""
set addressContext default zone PBX_CCAI ipPeer PBX_IPP policy sip fqdnPort 0
set addressContext default zone PBX_CCAI ipPeer PBX_IPP policy packetServiceProfile
CCAI_PSP
set addressContext default zone PBX_CCAI ipPeer PBX_IPP pathCheck profile CCAI_PBX
set addressContext default zone PBX_CCAI ipPeer PBX_IPP pathCheck state enabled
set addressContext default zone PBX_CCAI ipPeer PBX_IPP pathCheck statusUpdateSupport
enabled
commit
```

PSTN Gateway:

```
set addressContext default zone PSTN ipPeer PSTN_IPP ipAddress 10.64.X.X
set addressContext default zone PSTN ipPeer PSTN_IPP ipPort 5060
set addressContext default zone PSTN ipPeer PSTN_IPP policy description "PSTN PEER"
set addressContext default zone PSTN ipPeer PSTN_IPP policy sip fqdn ""
set addressContext default zone PSTN ipPeer PSTN_IPP policy sip fqdnPort 0
set addressContext default zone PSTN ipPeer PSTN_IPP pathCheck profile PSTN
set addressContext default zone PSTN ipPeer PSTN_IPP pathCheck hostName ""
set addressContext default zone PSTN ipPeer PSTN_IPP pathCheck hostPort 5060
set addressContext default zone PSTN ipPeer PSTN_IPP pathCheck state enabled
set addressContext default zone PSTN ipPeer PSTN_IPP pathCheck statusUpdateSupport
enabled commit
```

Google CES:

```
set addressContext default zone GOOGLE ipPeer GOOGLE defaultForIp false
set addressContext default zone GOOGLE ipPeer GOOGLE sipResponseCodeStats enabled
```

```
set addressContext default zone GOOGLE ipPeer GOOGLE policy description ""
set addressContext default zone GOOGLE ipPeer GOOGLE policy sip fqdn us.telephony.goog
set addressContext default zone GOOGLE ipPeer GOOGLE policy sip fqdnPort 5671
set addressContext default zone GOOGLE ipPeer GOOGLE policy packetServiceProfile
GOOGLE_PSP
set addressContext default zone GOOGLE ipPeer GOOGLE policy ipSignalingProfile
GOOGLE_IPSP
set addressContext default zone GOOGLE ipPeer GOOGLE pathCheck profile GOOGLE
set addressContext default zone GOOGLE ipPeer GOOGLE pathCheck hostName
us.telephony.goog
set addressContext default zone GOOGLE ipPeer GOOGLE pathCheck hostPort 5671
set addressContext default zone GOOGLE ipPeer GOOGLE pathCheck state enabled
commit
```

7.4.7 PathCheck Profile

Configure PathCheck profile towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

OnPrem PBX:

```
set profiles services pathCheckProfile CCAI_PBX protocol sipOptions
set profiles services pathCheckProfile CCAI_PBX sendInterval 30
set profiles services pathCheckProfile CCAI_PBX replyTimeoutCount 1
set profiles services pathCheckProfile CCAI_PBX recoveryCount 1
set profiles services pathCheckProfile CCAI_PBX transportPreference preference1 tcp
commit
```

PSTN Gateway:

```
set profiles services pathCheckProfile PSTN protocol sipOptions
set profiles services pathCheckProfile PSTN sendInterval 30
set profiles services pathCheckProfile PSTN replyTimeoutCount 3
set profiles services pathCheckProfile PSTN recoveryCount 3
commit
```

Google CES:

```
set profiles services pathCheckProfile GOOGLE protocol sipOptions
set profiles services pathCheckProfile GOOGLE sendInterval 60
set profiles services pathCheckProfile GOOGLE replyTimeoutCount 1
set profiles services pathCheckProfile GOOGLE recoveryCount 1
set profiles services pathCheckProfile GOOGLE transportPreference preference1 tls-tcp
set profiles services pathCheckProfile GOOGLE transportPreference preference2 tcp
commit
```

7.4.8 Signaling Profile

Configure Signaling profile towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

7.4.8.1 OnPrem PBX

```
set profiles signaling ipSignalingProfile PBX_IPSP ipProtocolType sipOnly
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
addPathServiceRoute disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
addPChargingFuncAddr disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
callHoldInterworking disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
clearmodeForDataCalls disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
createPChargingVector disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
createPathHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
createServiceRouteHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
customizedSessionTimerBehavior enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
disableAlsoHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
disableHostTranslation disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
disableMediaLockDown disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
disableReferToUriParameters disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
discardReceivedReasonHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
doNotIncludeSsAttributeInReInvite disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
enableDefaultPUIProcedures disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
enableDialStringHandling disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
endToEndBye disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
endToEndReInvite disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags
endToEndUpdate disable
```

set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags endToEndPrack disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags includeIpPortsInFromAndToHeaders disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags includeReasonHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags includeSsAttributeInInitialInvite disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags includeTransportTypeInContactHeader enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags insertPeerAddressAsTopRouteHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags mapCauseLocation disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags mapSuspendResumeEventInPSvcInfoHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags mapUuiInPSigInfoHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags mimeCausePrecedeReasonHeaderCause disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags minimizeRelayingOfMediaChangesFromOtherCallLegAll disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags noContentDisposition disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags noPortNumber5060 disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags noUserInfoInContactHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags onlySelectedCodecInSessionRefresh disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags pCalledPartyIDSupport disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags pChgMsgInfo disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags publishIPInHoldSDP disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags rejectRefer disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags replaceHostOnViaHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sendRTCPBandwidthInfo disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags reQueryPxxOnRegisterRefresh disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags validateAccessNwInfoHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags restrictHistoryInfoHeader disable

set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags routeUsingRecvdFqdn disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sdpOlineOnlyCompares disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sendAllAllowedCodecsForLateMediaInviteOrReInvite disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sendDirectMediaInfoInSdpAttribute disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sendPtimeInSdp disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sessionTimerRefreshUpdate enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags setAcceptHeaderToApplicationSdpOnly disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags setOlineDash disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags setSessionVersionZero disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags setSlineDash disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags skipPxxQueryForRefer disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags storePathHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags storeServiceRouteHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags terminalPortabilityInterworking disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sendRtcpPortInSdp disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags storePChargingFuncAddr disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags storePChargingVector enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags createPVisitedNetworkId disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags lockDownPreferredCodec disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sendOnlyPreferredCodec disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags suppressMinSelfNotReceived disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags usePxxRouteForRegisteredInvite disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags fromHeaderAnonymisation disable

set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags noServiceRouteHdrForEmergencyRegistration disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags insertPAccessNetworkInfo disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags contactTransparencyForIsFocusMediaTag disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags supportSCSCFRestorationProcedures disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags insertUEFlowInfo disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags acceptAlertInfo disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags aiToPemInterworking disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags sendSBCSupportedCodecsForLateMediaRelInvite disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags selectCoreStreamForMultiStreamAudioOrImageCall disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags mapDpmToSendrecvForInitialDialog disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags suppressReferRelayFromOtherLeg disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes flags supportCallInfoWithSipCause608Rfc8688 disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes callTransferFlags handleIpAddressesNotPresentInNetworkSelectorTableNst routeViaTransferringIptg
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes callTransferFlags forceReRouteViaPsxQuery disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes callTransferFlags skipReRouteViaPsxQuery disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes optionTagInRequireHeader suppressReplaceTag disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes optionTagInSupportedHeader suppressReplaceTag disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes preconditions State disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags dialogEventPackage disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags dtmfBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags info disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags message disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags notify disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags options disable

set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
regEventPackage disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags refer disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
sonusMediaBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
statusCode3xx disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
statusCode4xx6xx enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
relayPemTokens disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
thirdPartyBodies disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
force503to500Relay disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags publish
disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
updateWithoutSdp disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
conferenceEventPackage disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
reasonPhrase4xx6xx disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes relayFlags
referToHeaderRelay rejectReferIfnoMatchForcallId
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
acceptContactHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
alertInformationHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
authcodeHeaders disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
passCompleteContactHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
contactHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
errorInfo disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
fromHeader enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
historyInfo disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
maxForwardsHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
mwiBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
pAccessNetworkInfoHeader disable

set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
pCalledPartyID disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
pChargingVectorHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
pEarlyMedia disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
pVisitedNetworkIDHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
pathHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
pdfDiffBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
qsigBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
reasonHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
referredByHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
requestURI enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
routeHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
serviceRouteHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
sipBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
sipfragBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
toHeader enable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
toneBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
unknownBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
unknownHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
userToUserHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
viaHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
geolocation disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
geolocationRouting disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags
geolocationError disable

set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags acceptHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags callInfoHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags resourcePriorityOptionTag disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags simpleFilterBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags pidfBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags watcherInfoBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags rlmBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags externalBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags warningHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags userAgentHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags serverHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags acceptLanguageHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes transparencyFlags resourceListBody disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes headerEncryptionFlags encryptPathHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes headerEncryptionFlags encryptServiceRouteHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes subscriptionPackageSupport supportRegEvent disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes subscriptionPackageSupport usePSXRouteForSBCInitiatedSubscribe disable
set profiles signaling ipSignalingProfile PBX_IPSP commonIpAttributes registrarRecovery registerToAlternateOnPrimaryDown disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags bgcfTargetSchemeTransparency disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags convertInactiveToSendrecv disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags disable2806Compliance disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags disableOptionalRegisterParameters disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags addLoopBackRouteHeader disable

set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
map181Or182MessageTo183 disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
map3xxContactUriToRouteHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
mapContractorNumberInPSigInfoHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
transitPAIFromUnregisteredPeer disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags suppressUnregister
disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags ttclsupMapping
disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
useCalledPartyInRequestUri disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
useColonInSdpMediaTypeParameter disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags validateSubAddress
disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags qosBasedRouting
disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
ignoreSdpAfterOfferAnswerCompleted disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
includeEnumParameters disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
monitorRtpOnEgressUpdate disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags
enable3261CancelHandling disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes flags purposeJcardIcon
disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes bci
bciInterworkEncountered disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes bci bcilsdnAddress disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes domainName
useSipDomainNameInFromField disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes domainName
useSipDomainNameInRequestUri disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes domainName
useZoneLevelDomainNameInContact disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes domainName
useSipSignalingPeerDomainInRequestUri disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes domainName
useZoneLevelDomainNameInPathHdr disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes domainName
useSipDomainInPAIHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes isub allowNsapSub disable

set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes isub allowUserSpecifiedIsub disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes isub includeCalledPartyIsub disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes isub includeCallingPartyIsub disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes numberPortabilityAttributes npdiOptions includeNpdiYes
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes numberPortabilityAttributes disableRn disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes privacy transparency disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes privacy privacyInformation pAssertedId
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes privacy flags includePrivacy enable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes privacy flags privacyRequiredByProxy disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes privacy flags msLyncPrivacySupport disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes privacy flags includeEmbeddedPAIheaderInRedirectedInvite disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect mode acceptRedirection
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect contactHandling mergeReceivedContacts
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect flags skipCrankbackProfileAndAlwaysCrankback disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect flags forceRequeryForRedirection disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect flags relayUnusedContactParams disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect flags honorEmbeddedHeadersIn3xx disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect flags enhancedLocalRedirection disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect flags skipDTGLookupFor3xxContact disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes redirect flags sendEmbeddedHeadersfromFirst3xxContact disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters callForwarding diversionHistoryInfoInterworking disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters callForwarding dataMapping diversion
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters callForwarding diversionHeaderTransparency disable

set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
callForwarding historyInformation includeHistoryInformation disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
includeChargeInformation includeNone
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
sessionExpiresRefresher uac
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
sipToHeaderMapping none
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
destinationTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
originatingTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
generateCallIdUsing doNotUseIngressCallId
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags includeCic disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags includeCpcInformation disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags includeNpi disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags includeOlip disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags includePKAdn disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags includePstnParameters disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags includeQvalue disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags skipCSeqCheckInEarlyDialog disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags transparencyForDestinationTrunkGroupParameter disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipHeadersAndParameters
flags endToEndAck disable
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes transport type1 tcp
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes transport type2 none
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes transport type3 none
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes transport type4 none
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipCauseMapping
internalToSipCauseMappingProfileName ""
set profiles signaling ipSignalingProfile PBX_IPSP egressIpAttributes sipCauseMapping
sipToInternalCauseMappingProfileName ""
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags sip181Supported
disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags sip182Supported
disable

```

set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
mapCalledPartyCategoryInPSigInfoHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
noSdpIn180Supported disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
registrationExpiresinExpiresHeader disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
send183OnInitiatingDisconnectTreatment disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
sendSdpIn200OkIf18xReliable disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
sendSdpInSubsequent18x disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
sendTLSConnectionFailureResponse disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
suppress183For3xxRedirectResponse disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
suppress183WithoutSdp disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
set-cut-through-indication-in-OBCI disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes flags
sendUpdatedSDPin200Ok disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes carrierInformation
generateTerminatingCa disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes carrierInformation
generateTerminatingCic disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes ingressHistoryInformation
supportRFC7044Ingress disable
set profiles signaling ipSignalingProfile PBX_IPSP ingressIpAttributes ingressHistoryInformation
applyHistoryInfoPrivacyIngress disable
set profiles signaling ipSignalingProfile PBX_IPSP trfParameters preferredMrbUri ""
set profiles signaling ipSignalingProfile PBX_IPSP trfParameters preferredTrfUri ""
commit

```

7.4.8.2 PSTN Gateway

```

set profiles signaling ipSignalingProfile PSTN_IPSP ipProtocolType sipOnly
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
addPathServiceRoute disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
addPChargingFuncAddr disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
callHoldInterworking enable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
clearmodeForDataCalls disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
createPChargingVector disable

```

set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags createPathHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags createServiceRouteHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags customizedSessionTimerBehavior disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags disableAlsoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags disableHostTranslation disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags disableMediaLockDown disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags disableReferToUriParameters disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags discardReceivedReasonHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags doNotIncludeSsAttributeInRelInvite disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags enableDefaultPUIProcedures disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags enableDialStringHandling disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags endToEndBye disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags endToEndRelInvite disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags endToEndUpdate disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags endToEndPrack disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags includeIpPortsInFromAndToHeaders disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags includeReasonHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags includeSsAttributeInInitialInvite disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags includeTransportTypeInContactHeader enable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags insertPeerAddressAsTopRouteHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags mapCauseLocation disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags mapSuspendResumeEventInPsvclInfoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags mapUuiInPSigInfoHeader disable

set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags mimeCausePrecedeReasonHeaderCause disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags minimizeRelayingOfMediaChangesFromOtherCallLegAll disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags noContentDisposition disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags noPortNumber5060 disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags noUserinfoInContactHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags onlySelectedCodeInSessionRefresh disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags pCalledPartyIDSupport disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags pChgMsgInfo disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags publishIPInHoldSDP enable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags rejectRefer disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags replaceHostOnViaHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags sendRTCPBandwidthInfo disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags reQueryPxxOnRegisterRefresh disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags validateAccessNwInfoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags restrictHistoryInfoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags routeUsingRecvdFqdn disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags sdpOlineOnlyCompares disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags sendAllAllowedCodecsForLateMediaInviteOrReInvite disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags sendDirectMediaInfoInSdpAttribute disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags sendPtimeInSdp disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags sessionTimerRefreshUpdate disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags setAcceptHeaderToApplicationSdpOnly disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags setOlineDash disable

set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
setSessionVersionZero disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags setSlimeDash
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
skipPxxQueryForRefer disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags storePathHeader
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
storeServiceRouteHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
terminalPortabilityInterworking disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
sendRtcpPortInSdp disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
storePChargingFuncAddr disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
storePChargingVector enable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
createPVisitedNetworkId disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
lockDownPreferredCodec disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
sendOnlyPreferredCodec disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
suppressMinSelfNotReceived disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
usePxxRouteForRegisteredInvite disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
fromHeaderAnonymisation disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
noServiceRouteHdrForEmergencyRegistration disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
insertPAccessNetworkInfo disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
contactTransparencyForIsFocusMediaTag disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
supportSCSCFRestorationProcedures disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags insertUEFlowInfo
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags acceptAlertInfo
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
aiToPemInterworking disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
sendSBCSupportedCodecsForLateMediaReInvite disable

set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
selectCoreStreamForMultiStreamAudioOrImageCall disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
mapDpmToSendrecvForInitialDialog disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
suppressReferRelayFromOtherLeg disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes flags
supportCallInfoWithSipCause608Rfc8688 disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes callTransferFlags
handleIpAddressesNotPresentInNetworkSelectorTableNst routeViaTransferringIptg
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes callTransferFlags
forceReRouteViaPsxQuery disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes callTransferFlags
skipReRouteViaPsxQuery disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes
optionTagInRequireHeader suppressReplaceTag disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes
optionTagInSupportedHeader suppressReplaceTag disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes preconditions State
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
dialogEventPackage disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags dtmfBody
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags info disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags message
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags notify disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags options
disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
regEventPackage disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags refer disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
sonusMediaBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
statusCode3xx disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
statusCode4xx6xx enable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
relayPemTokens disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
thirdPartyBodies disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
force503to500Relay disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags publish
disable

set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
updateWithoutSdp disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
conferenceEventPackage disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
reasonPhrase4xx6xx disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes relayFlags
referToHeaderRelay rejectReferIfnoMatchForcallId
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
acceptContactHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
alertInformationHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
authcodeHeaders disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
passCompleteContactHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
contactHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
errorInfo disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
fromHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
historyInfo disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
maxForwardsHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
mwiBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
pAccessNetworkInfoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
pCalledPartyID disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
pChargingVectorHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
pEarlyMedia disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
pVisitedNetworkIDHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
pathHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
pdfDiffBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
qsigBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags
reasonHeader disable

set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags referredByHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags requestURI disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags routeHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags serviceRouteHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags sipBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags sipfragBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags toHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags toneBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags unknownBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags unknownHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags userToUserHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags viaHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags geolocation disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags geolocationRouting disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags geolocationError disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags acceptHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags callInfoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags resourcePriorityOptionTag disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags simpleFilterBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags pdfBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags watcherInfoBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags rlmBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags externalBody disable

set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags warningHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags userAgentHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags serverHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags acceptLanguageHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes transparencyFlags resourceListBody disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes headerEncryptionFlags encryptPathHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes headerEncryptionFlags encryptServiceRouteHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes subscriptionPackageSupport supportRegEvent disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes subscriptionPackageSupport usePSXRouteForSBCInitiatedSubscribe disable
set profiles signaling ipSignalingProfile PSTN_IPSP commonIpAttributes registrarRecovery registerToAlternateOnPrimaryDown disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags bgcfTargetSchemeTransparency disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags convertInactiveToSendrecv disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags disable2806Compliance disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags disableOptionalRegisterParameters disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags addLoopBackRouteHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags map181Or182MessageTo183 disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags map3xxContactUrlToRouteHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags mapContractorNumberInPSigInfoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags transitPAIFromUnregisteredPeer disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags suppressUnregister disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags ttclsupMapping disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags useCalledPartyInRequestUri disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags useColonInSdpMediaTypeParameter disable

set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags validateSubAddress disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags qosBasedRouting disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags ignoreSdpAfterOfferAnswerCompleted disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags includeEnumParameters disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags monitorRtpOnEgressUpdate disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags enable3261CancelHandling disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes flags purposeJcardIcon disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes bci bciInterworkEncountered disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes bci bcIscdnAddress disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes domainName useSipDomainNameInFromField disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes domainName useSipDomainNameInRequestUri disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes domainName useZoneLevelDomainNameInContact disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes domainName useIpSignalingPeerDomainInRequestUri disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes domainName useZoneLevelDomainNameInPathHdr disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes domainName useSipDomainInPAIHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes isub allowNsapSub disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes isub allowUserSpecifiedSub disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes isub includeCalledPartySub disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes isub includeCallingPartySub disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes numberPortabilityAttributes npdiOptions includeNpdiYes
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes numberPortabilityAttributes disableRn disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes privacy transparency disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes privacy privacyInformation pPreferredId
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes privacy flags includePrivacy enable

set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes privacy flags
privacyRequiredByProxy disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes privacy flags
msLyncPrivacySupport disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes privacy flags
includeEmbeddedPALheaderInRedirectedInvite disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect mode
acceptRedirection
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect contactHandling
mergeReceivedContacts
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect flags
skipCrankbackProfileAndAlwaysCrankback disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect flags
forceRequeryForRedirection disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect flags
relayUnusedContactParams disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect flags
honorEmbeddedHeadersIn3xx disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect flags
enhancedLocalRedirection disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect flags
skipDTGLookupFor3xxContact disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes redirect flags
sendEmbeddedHeadersfromFirst3xxContact disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding diversionHistoryInfoInterworking disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding dataMapping diversion
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding diversionHeaderTransparency disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding historyInformation includeHistoryInformation
disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters includeChargeInformation includeNone
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters sipToHeaderMapping none
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters destinationTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters originatingTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters generateCallIdUsing doNotUseIngressCallId
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags includeCic disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags includeCpcInformation disable

```

set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags includeNpi disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags includeOlip disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags includePKAdn disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags includePstnParameters disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags includeQvalue disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags skipCSeqCheckInEarlyDialog disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags transparencyForDestinationTrunkGroupParameter disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes
sipHeadersAndParameters flags endToEndAck disable
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes transport type1 tcp
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes transport type2 none
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes transport type3 none
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes transport type4 none
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes sipCauseMapping
internalToSipCauseMappingProfileName ""
set profiles signaling ipSignalingProfile PSTN_IPSP egressIpAttributes sipCauseMapping
sipToInternalCauseMappingProfileName ""
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags sip181Supported
disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags sip182Supported
disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
mapCalledPartyCategoryInPSigInfoHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
noSdpIn180Supported disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
registrationExpiresinExpiresHeader disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
send183OnInitiatingDisconnectTreatment disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
sendSdpIn200OkIf18xReliable disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
sendSdpInSubsequent18x disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
sendTLSConnectionFailureResponse disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
suppress183For3xxRedirectResponse disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
suppress183WithoutSdp disable

```



```
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
set-cut-through-indication-in-OBCI disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes flags
sendUpdatedSDPin200Ok disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes carrierInformation
generateTerminatingCa disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes carrierInformation
generateTerminatingCic disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes
ingressHistoryInformation supportRFC7044Ingress disable
set profiles signaling ipSignalingProfile PSTN_IPSP ingressIpAttributes
ingressHistoryInformation applyHistoryInfoPrivacyIngress disable
set profiles signaling ipSignalingProfile PSTN_IPSP trfParameters preferredMrbUri ""
set profiles signaling ipSignalingProfile PSTN_IPSP trfParameters preferredTrfUri ""
commit
```

7.4.8.3 Google CES

```
set profiles signaling ipSignalingProfile GOOGLE_IPSP ipProtocolType sipOnly
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
addPathServiceRoute disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
addPChargingFuncAddr disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
callHoldInterworking disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
clearmodeForDataCalls disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
createPChargingVector disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
createPathHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
createServiceRouteHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
customizedSessionTimerBehavior enable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
disableAlsoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
disableHostTranslation disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
disableMediaLockDown disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
disableReferToUriParameters disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
discardReceivedReasonHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
doNotIncludeSsAttributeInReInvite disable
```

set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags enableDefaultPUIProcedures disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags enableDialStringHandling disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags endToEndBye disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags endToEndReinvite disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags endToEndUpdate disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags endToEndPrack disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags includeIpPortsInFromAndToHeaders disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags includeReasonHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags includeSsAttributeInInitialInvite disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags includeTransportTypeInContactHeader enable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags insertPeerAddressAsTopRouteHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags mapCauseLocation disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags mapSuspendResumeEventInPSvcInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags mapUuiInPSigInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags mimeCausePrecedeReasonHeaderCause disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags minimizeRelayingOfMediaChangesFromOtherCallLegAll disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags noContentDisposition disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags noPortNumber5060 disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags noUserInfoInContactHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags onlySelectedCodeInSessionRefresh disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags pCalledPartyIDSupport disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags pChgMsgInfo disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags publishIPInHoldSDP disable

set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags rejectRefer disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags replaceHostOnViaHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags sendRTCPBandwidthInfo disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags reQueryPxxOnRegisterRefresh disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags validateAccessNwInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags restrictHistoryInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags routeUsingRecvdFqdn disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags sdpOlineOnlyCompares disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags sendAllAllowedCodecsForLateMediaInviteOrRelInvite disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags sendDirectMediaInfoInSdpAttribute disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags sendPtimeInSdp disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags sessionTimerRefreshUpdate enable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags setAcceptHeaderToApplicationSdpOnly disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags setOlineDash disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags setSessionVersionZero disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags setSlineDash disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags skipPxxQueryForRefer disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags storePathHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags storeServiceRouteHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags terminalPortabilityInterworking disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags sendRtcpPortInSdp disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags storePChargingFuncAddr disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags storePChargingVector enable

set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
createPVisitedNetworkId disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
lockDownPreferredCodec disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
sendOnlyPreferredCodec disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
suppressMinSelfNotReceived disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
usePsxRouteForRegisteredInvite disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
fromHeaderAnonymisation disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
noServiceRouteHdrForEmergencyRegistration disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
insertPAccessNetworkInfo disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
contactTransparencyForIsFocusMediaTag disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
supportSCSCFRestorationProcedures disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
insertUEFlowInfo disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
acceptAlertInfo disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
aiToPemInterworking disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
sendSBCSupportedCodecsForLateMediaRelInvite disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
selectCoreStreamForMultiStreamAudioOrImageCall disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
mapDpmToSendrecvForInitialDialog disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
suppressReferRelayFromOtherLeg disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes flags
supportCallInfoWithSipCause608Rfc8688 disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes callTransferFlags
handleIpAddressesNotPresentInNetworkSelectorTableNst routeViaTransferringIptg
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes callTransferFlags
forceReRouteViaPsxQuery disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes callTransferFlags
skipReRouteViaPsxQuery disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes
optionTagInRequireHeader suppressReplaceTag disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes
optionTagInSupportedHeader suppressReplaceTag disable

set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes preconditions State disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags dialogEventPackage disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags dtmfBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags info disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags message disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags notify disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags options disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags regEventPackage disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags refer disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags sonusMediaBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags statusCode3xx disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags statusCode4xx6xx disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags relayPemTokens disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags thirdPartyBodies disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags force503to500Relay disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags publish disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags updateWithoutSdp disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags conferenceEventPackage disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags reasonPhrase4xx6xx disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes relayFlags referToHeaderRelay rejectReferIfnoMatchForcallId
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags acceptContactHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags alertInformationHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags authcodeHeaders disable

set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags passCompleteContactHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags contactHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags errorInfo disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags fromHeader enable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags historyInfo disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags maxForwardsHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags mwiBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pAccessNetworkInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pCalledPartyID disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pChargingVectorHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pEarlyMedia disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pVisitedNetworkIDHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pathHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pdfDiffBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags qsigBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags reasonHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags referredByHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags requestURI enable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags routeHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags serviceRouteHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags sipBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags sipfragBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags toHeader enable

set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags toneBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags unknownBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags unknownHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags userToUserHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags viaHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags geolocation disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags geolocationRouting disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags geolocationError disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags acceptHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags callInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags resourcePriorityOptionTag disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags simpleFilterBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags pdfBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags watcherInfoBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags rImiBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags externalBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags warningHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags userAgentHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags serverHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags acceptLanguageHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes transparencyFlags resourceListBody disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes headerEncryptionFlags encryptPathHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes headerEncryptionFlags encryptServiceRouteHeader disable

set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes
subscriptionPackageSupport supportRegEvent disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes
subscriptionPackageSupport usePSXRouteForSBCInitiatedSubscribe disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP commonIpAttributes registrarRecovery
registerToAlternateOnPrimaryDown disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
numberGlobalizationProfile DEFAULT_IP
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
phoneContextParameterLength 0
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
bgcfTargetSchemeTransparency disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
convertInactiveToSendrecv disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
disable2806Compliance disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
disableOptionalRegisterParameters disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
addLoopBackRouteHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
map181Or182MessageTo183 disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
map3xxContactUriToRouteHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
mapContractorNumberInPSigInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
transitPAIFromUnregisteredPeer disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
suppressUnregister disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags ttclsupMapping
disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
useCalledPartyInRequestUri disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
useColonInSdpMediaTypeParameter disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
validateSubAddress disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
qosBasedRouting disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
ignoreSdpAfterOfferAnswerCompleted disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
includeEnumParameters disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags
monitorRtpOnEgressUpdate disable

set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags enable3261CancelHandling disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes flags purposeJcardIcon disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes bci bciInterworkEncountered disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes bci bcilsdnAddress disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes domainName useSipDomainNameInFromField disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes domainName useSipDomainNameInRequestUri disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes domainName useZoneLevelDomainNameInContact disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes domainName useIpSignalingPeerDomainInRequestUri disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes domainName useZoneLevelDomainNameInPathHdr disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes domainName useSipDomainInPAIHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes isub allowNsapSub disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes isub allowUserSpecifiedSub disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes isub includeCalledPartySub disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes isub includeCallingPartySub disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes numberPortabilityAttributes npdiOptions includeNpdiYes
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes numberPortabilityAttributes disableRn disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes privacy transparency disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes privacy privacyInformation pAssertedId
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes privacy flags includePrivacy enable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes privacy flags privacyRequiredByProxy disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes privacy flags msLyncPrivacySupport disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes privacy flags includeEmbeddedPAIheaderInRedirectedInvite disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect mode acceptRedirection

set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect
contactHandling mergeReceivedContacts
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect flags
skipCrankbackProfileAndAlwaysCrankback disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect flags
forceRequeryForRedirection disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect flags
relayUnusedContactParams disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect flags
honorEmbeddedHeadersIn3xx disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect flags
enhancedLocalRedirection disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect flags
skipDTGLookupFor3xxContact disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes redirect flags
sendEmbeddedHeadersfromFirst3xxContact disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding diversionHistoryInfoInterworking disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding dataMapping diversion
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding diversionHeaderTransparency disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters callForwarding historyInformation includeHistoryInformation
disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters includeChargeInformation includeNone
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters sessionExpiresRefresher uac
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters sipToHeaderMapping none
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters destinationTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters originatingTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters generateCallIdUsing doNotUseIngressCallId
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags includeCic disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags includeCpcInformation disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags includeNpi disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags includeOlip disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags includePKAdn disable

```
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags includePstnParameters disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags includeQvalue disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags skipCSeqCheckInEarlyDialog disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags transparencyForDestinationTrunkGroupParameter disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes
sipHeadersAndParameters flags endToEndAck disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes transport type1
tlsOverTcp
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes transport type2 none
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes transport type3 none
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes transport type4 none
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes sipCauseMapping
internalToSipCauseMappingProfileName ""
set profiles signaling ipSignalingProfile GOOGLE_IPSP egressIpAttributes sipCauseMapping
sipToInternalCauseMappingProfileName ""
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
sip181Supported disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
sip182Supported disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
mapCalledPartyCategoryInPSigInfoHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
noSdpIn180Supported disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
registrationExpiresinExpiresHeader disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
send183OnInitiatingDisconnectTreatment disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
sendSdpIn200OkIf18xReliable disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
sendSdpInSubsequent18x disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
sendTLSConnectionFailureResponse disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
suppress183For3xxRedirectResponse disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
suppress183WithoutSdp disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
set-cut-through-indication-in-OBCI disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes flags
sendUpdatedSDPin200Ok disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes carrierInformation
generateTerminatingCa disable
```

```
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes carrierInformation
generateTerminatingCic disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes
ingressHistoryInformation supportRFC7044Ingress disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP ingressIpAttributes
ingressHistoryInformation applyHistoryInfoPrivacyIngress disable
set profiles signaling ipSignalingProfile GOOGLE_IPSP trfParameters preferredMrbUri ""
set profiles signaling ipSignalingProfile GOOGLE_IPSP trfParameters preferredTrfUri ""
commit
```

7.4.9 Codec

Configure Codec settings as shown below.

```
set profiles media codecEntry G711-U codec g711
set profiles media codecEntry G711-U packetSize 20
set profiles media codecEntry G711-U fax failureHandling continue
set profiles media codecEntry G711-U fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G711-U fax honorToneDetection disable
set profiles media codecEntry G711-U modem failureHandling continue
set profiles media codecEntry G711-U modem toneTreatment fallbackToG711
set profiles media codecEntry G711-U modem honorToneDetection disable
set profiles media codecEntry G711-U law ULaw
set profiles media codecEntry G711-U dtmf relay rfc2833
set profiles media codecEntry G711-U dtmf removeDigits enable
```

```
set profiles media codecEntry G711-A codec g711
set profiles media codecEntry G711-A packetSize 20
set profiles media codecEntry G711-A fax failureHandling continue
set profiles media codecEntry G711-A fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G711-A fax honorToneDetection disable
set profiles media codecEntry G711-A modem failureHandling continue
set profiles media codecEntry G711-A modem toneTreatment fallbackToG711
set profiles media codecEntry G711-A modem honorToneDetection disable
set profiles media codecEntry G711-A law ALaw
set profiles media codecEntry G711-A dtmf relay rfc2833
set profiles media codecEntry G711-A dtmf removeDigits enable
commit
```

7.4.10 Packet Service Profile

Configure Packet Service profile towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

7.4.10.1 OnPrem PBX

```
set profiles media packetServiceProfile CCAI_PSP dataCalls preferredRtpDataPayloadType 56
set profiles media packetServiceProfile CCAI_PSP dataCalls initialPlayoutBufferDelay 50
set profiles media packetServiceProfile CCAI_PSP dataCalls packetSize 20
set profiles media packetServiceProfile CCAI_PSP silenceFactor 40
set profiles media packetServiceProfile CCAI_PSP typeOfService 0
set profiles media packetServiceProfile CCAI_PSP voiceInitialPlayoutBufferDelay 10
set profiles media packetServiceProfile CCAI_PSP rtcpOptions rtcp disable
set profiles media packetServiceProfile CCAI_PSP peerAbsenceAction none
set profiles media packetServiceProfile CCAI_PSP silenceInsertionDescriptor
g711SidRtpPayloadType 13
set profiles media packetServiceProfile CCAI_PSP silenceInsertionDescriptor heartbeat enable
set profiles media packetServiceProfile CCAI_PSP aal1PayloadSize 47
set profiles media packetServiceProfile CCAI_PSP codec codecEntry1 G711-U
set profiles media packetServiceProfile CCAI_PSP codec codecEntry2 G711-A
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl transcode
conditional
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec applyFaxToneTreatment disable
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec differentDtmfRelay disable
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec differentPacketSize disable
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec differentSilenceSuppression disable
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec honorOfferPreference disable
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec honorAnswerPreference disable
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec different2833PayloadType disable
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
codecsAllowedForTranscoding thisLeg g711a,g711u,g722,opus
set profiles media packetServiceProfile CCAI_PSP packetToPacketControl
codecsAllowedForTranscoding otherLeg g711a,g711u,g722,opus
set profiles media packetServiceProfile CCAI_PSP flags disallowDataCalls enable
set profiles media packetServiceProfile CCAI_PSP flags digitDetectSendEnabled disable
set profiles media packetServiceProfile CCAI_PSP flags useDirectMedia disable
set profiles media packetServiceProfile CCAI_PSP flags validatePeerSupportForDtmfEvents
disable
```

```
set profiles media packetServiceProfile CCAI_PSP flags interworkDtmfWithoutTranscoding
disable
set profiles media packetServiceProfile CCAI_PSP flags dscpPassthrough disable
set profiles media packetServiceProfile CCAI_PSP flags ssrcRandomize disable
set profiles media packetServiceProfile CCAI_PSP flags HDCodecPreferred disable
set profiles media packetServiceProfile CCAI_PSP flags MatchOfferedCodecGroupIfNbOnly
disable
set profiles media packetServiceProfile CCAI_PSP flags forceRoutePSPOrder disable
set profiles media packetServiceProfile CCAI_PSP flags generateAndSignalSSRCAndCname
disable
set profiles media packetServiceProfile CCAI_PSP flags mediaLockDownForPassThrough
disable
set profiles media packetServiceProfile CCAI_PSP flags
reserveBwForPreferredAudioCommonCodec disable
set profiles media packetServiceProfile CCAI_PSP flags policeOnHeaviestAudioCodec disable
set profiles media packetServiceProfile CCAI_PSP flags t140Call disable
set profiles media packetServiceProfile CCAI_PSP flags
allowAudioTranscodeForMultiStreamCall disable
set profiles media packetServiceProfile CCAI_PSP flags vtpSupport disable
set profiles media packetServiceProfile CCAI_PSP flags ssrcRandomizeForSrtp disable
set profiles media packetServiceProfile CCAI_PSP flags g711T140BaudotAdapt disable
set profiles media packetServiceProfile CCAI_PSP flags validateRtpHeader disable
set profiles media packetServiceProfile CCAI_PSP t38 dataRateManagementType
type2TransferOfTcf
set profiles media packetServiceProfile CCAI_PSP t38 ecm ecmPreferred disable
set profiles media packetServiceProfile CCAI_PSP t38 lowSpeedNumberOfRedundantPackets 1
set profiles media packetServiceProfile CCAI_PSP t38 maxBitRate 14.4Kbits_s
set profiles media packetServiceProfile CCAI_PSP t38 numberOfRedundantPackets 1
set profiles media packetServiceProfile CCAI_PSP t38 protocolVersion 0
set profiles media packetServiceProfile CCAI_PSP secureRtpRtcp flags allowFallback disable
set profiles media packetServiceProfile CCAI_PSP secureRtpRtcp flags enableSrtp disable
set profiles media packetServiceProfile CCAI_PSP secureRtpRtcp flags
resetROCOOnKeyChange disable
set profiles media packetServiceProfile CCAI_PSP secureRtpRtcp flags
resetEncDecROCOOnDecKeyChange disable
set profiles media packetServiceProfile CCAI_PSP secureRtpRtcp flags
updateCryptoKeysOnModify disable
set profiles media packetServiceProfile CCAI_PSP secureRtpRtcp flags allowPassthru disable
set profiles media packetServiceProfile CCAI_PSP preferredRtpPayloadTypeForDtmfRelay 127
set profiles media packetServiceProfile CCAI_PSP videoCalls maxVideoBandwidth 0
set profiles media packetServiceProfile CCAI_PSP videoCalls videoBandwidthReductionFactor
0
set profiles media packetServiceProfile CCAI_PSP videoCalls ipv4Tos 0
set profiles media packetServiceProfile CCAI_PSP videoCalls ipv6TrafficClass 0
set profiles media packetServiceProfile CCAI_PSP videoCalls ieee8021QVLanCos 0
set profiles media packetServiceProfile CCAI_PSP videoCalls audioOnlyIfVideolsPrevented
enable
```

```
set profiles media packetServiceProfile CCAI_PSP qosValues msrpDscp 0
set profiles media packetServiceProfile CCAI_PSP qosValues dtlsSctpDscp 0
set profiles media packetServiceProfile CCAI_PSP qosValues t140Dscp 0
set profiles media packetServiceProfile CCAI_PSP qosValues applicationDscp 0
set profiles media packetServiceProfile CCAI_PSP nonRtpStream maxNonRtpBandwidth 0
set profiles media packetServiceProfile CCAI_PSP nonRtpStream nonRtpTlsProfileName
defaultTlsProfile
set profiles media packetServiceProfile CCAI_PSP audioTransparency
unknownCodecPacketSize 10
set profiles media packetServiceProfile CCAI_PSP audioTransparency unknownCodecBitRate
124
set profiles media packetServiceProfile CCAI_PSP mediaPacketCos 0
set profiles media packetServiceProfile CCAI_PSP honorRemotePrecedence disable
set profiles media packetServiceProfile CCAI_PSP sendRoutePSPPrecedence disable
set profiles media packetServiceProfile CCAI_PSP dtls dtlsFlags allowDtlsFallback disable
set profiles media packetServiceProfile CCAI_PSP dtls dtlsFlags enableDtlsSrtp disable
set profiles media packetServiceProfile CCAI_PSP dtls dtlsFlags dtlsSctpRelay disable
set profiles media packetServiceProfile CCAI_PSP prohibitedCodecList none
commit
```

7.4.10.2 PSTN Gateway

```
set profiles media packetServiceProfile DEFAULT dataCalls preferredRtpDataPayloadType 56
set profiles media packetServiceProfile DEFAULT dataCalls initialPlayoutBufferDelay 50
set profiles media packetServiceProfile DEFAULT dataCalls packetSize 20
set profiles media packetServiceProfile DEFAULT silenceFactor 40
set profiles media packetServiceProfile DEFAULT typeOfService 0
set profiles media packetServiceProfile DEFAULT voiceInitialPlayoutBufferDelay 10
set profiles media packetServiceProfile DEFAULT rtcpOptions rtcp disable
set profiles media packetServiceProfile DEFAULT peerAbsenceAction none
set profiles media packetServiceProfile DEFAULT silenceInsertionDescriptor
g711SidRtpPayloadType 19
set profiles media packetServiceProfile DEFAULT silenceInsertionDescriptor heartbeat enable
set profiles media packetServiceProfile DEFAULT aal1PayloadSize 47
set profiles media packetServiceProfile DEFAULT codec codecEntry1 G711-U
set profiles media packetServiceProfile DEFAULT codec codecEntry2 G711-A
set profiles media packetServiceProfile DEFAULT packetToPacketControl transcode conditional
set profiles media packetServiceProfile DEFAULT packetToPacketControl
conditionsInAdditionToNoCommonCodec applyFaxToneTreatment disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl
conditionsInAdditionToNoCommonCodec differentDtmfRelay disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl
conditionsInAdditionToNoCommonCodec differentPacketSize disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl
conditionsInAdditionToNoCommonCodec differentSilenceSuppression disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl
conditionsInAdditionToNoCommonCodec honorOfferPreference disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl
conditionsInAdditionToNoCommonCodec honorAnswerPreference disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl
conditionsInAdditionToNoCommonCodec different2833PayloadType disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl
codecsAllowedForTranscoding thisLeg ""
set profiles media packetServiceProfile DEFAULT packetToPacketControl
codecsAllowedForTranscoding otherLeg ""
set profiles media packetServiceProfile DEFAULT flags disallowDataCalls disable
set profiles media packetServiceProfile DEFAULT flags digitDetectSendEnabled disable
set profiles media packetServiceProfile DEFAULT flags useDirectMedia disable
set profiles media packetServiceProfile DEFAULT flags validatePeerSupportForDtmfEvents
disable
set profiles media packetServiceProfile DEFAULT flags interworkDtmfWithoutTranscoding
disable
set profiles media packetServiceProfile DEFAULT flags dscpPassthrough disable
set profiles media packetServiceProfile DEFAULT flags ssrcRandomize disable
set profiles media packetServiceProfile DEFAULT flags HDCodecPreferred disable
set profiles media packetServiceProfile DEFAULT flags MatchOfferedCodecGroupIfNbOnly
disable
```



```

set profiles media packetServiceProfile DEFAULT flags forceRoutePSPOrder disable
set profiles media packetServiceProfile DEFAULT flags generateAndSignalSSRCAndCname
disable
set profiles media packetServiceProfile DEFAULT flags mediaLockDownForPassThrough disable
set profiles media packetServiceProfile DEFAULT flags
reserveBwForPreferredAudioCommonCodec disable
set profiles media packetServiceProfile DEFAULT flags policeOnHeaviestAudioCodec disable
set profiles media packetServiceProfile DEFAULT flags t140Call disable
set profiles media packetServiceProfile DEFAULT flags allowAudioTranscodeForMultiStreamCall
disable
set profiles media packetServiceProfile DEFAULT flags vtpSupport disable
set profiles media packetServiceProfile DEFAULT flags ssrcRandomizeForSrtp disable
set profiles media packetServiceProfile DEFAULT flags g711T140BaudotAdapt disable
set profiles media packetServiceProfile DEFAULT flags validateRtpHeader disable
set profiles media packetServiceProfile DEFAULT t38 dataRateManagementType
type2TransferOfTcf
set profiles media packetServiceProfile DEFAULT t38 ecm ecmPreferred disable
set profiles media packetServiceProfile DEFAULT t38 lowSpeedNumberOfRedundantPackets 1
set profiles media packetServiceProfile DEFAULT t38 maxBitRate 14.4Kbits_s
set profiles media packetServiceProfile DEFAULT t38 numberOfRedundantPackets 1
set profiles media packetServiceProfile DEFAULT t38 protocolVersion 0
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags allowFallback disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags enableSrtp disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags resetROCOOnKeyChange
disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags
resetEncDecROCOOnDecKeyChange disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags
updateCryptoKeysOnModify disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags allowPassthru disable
set profiles media packetServiceProfile DEFAULT preferredRtpPayloadTypeForDtmfRelay 128
set profiles media packetServiceProfile DEFAULT videoCalls maxVideoBandwidth 0
set profiles media packetServiceProfile DEFAULT videoCalls videoBandwidthReductionFactor 0
set profiles media packetServiceProfile DEFAULT videoCalls ipv4Tos 0
set profiles media packetServiceProfile DEFAULT videoCalls ipv6TrafficClass 0
set profiles media packetServiceProfile DEFAULT videoCalls ieee8021QVLanCos 0
set profiles media packetServiceProfile DEFAULT videoCalls audioOnlyIfVideolsPrevented
enable
set profiles media packetServiceProfile DEFAULT qosValues msrpDscp 0
set profiles media packetServiceProfile DEFAULT qosValues dtlsSctpDscp 0
set profiles media packetServiceProfile DEFAULT qosValues t140Dscp 0
set profiles media packetServiceProfile DEFAULT qosValues applicationDscp 0
set profiles media packetServiceProfile DEFAULT nonRtpStream maxNonRtpBandwidth 0
set profiles media packetServiceProfile DEFAULT audioTransparency
unknownCodecPacketSize 10
set profiles media packetServiceProfile DEFAULT audioTransparency unknownCodecBitRate
124

```

```
set profiles media packetServiceProfile DEFAULT mediaPacketCos 0
set profiles media packetServiceProfile DEFAULT honorRemotePrecedence disable
set profiles media packetServiceProfile DEFAULT sendRoutePSPPrecedence disable
set profiles media packetServiceProfile DEFAULT dtls dtlsFlags allowDtlsFallback disable
set profiles media packetServiceProfile DEFAULT dtls dtlsFlags enableDtlsSrtp disable
set profiles media packetServiceProfile DEFAULT dtls dtlsFlags dtlsSctpRelay disable
set profiles media packetServiceProfile DEFAULT prohibitedCodecList none
commit
```

7.4.10.3 Google CES

```
set profiles media packetServiceProfile GOOGLE_PSP dataCalls preferredRtpDataPayloadType
56
set profiles media packetServiceProfile GOOGLE_PSP dataCalls initialPlayoutBufferDelay 50
set profiles media packetServiceProfile GOOGLE_PSP dataCalls packetSize 20
set profiles media packetServiceProfile GOOGLE_PSP silenceFactor 40
set profiles media packetServiceProfile GOOGLE_PSP typeOfService 0
set profiles media packetServiceProfile GOOGLE_PSP voiceInitialPlayoutBufferDelay 10
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions rtcp enable
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions terminationForPassthrough
disable
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions enableRTCPForHeldCalls
disable
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions rtcpMux enable
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions packetLossThreshold 0
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions rrBandwidth 250
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions rsBandwidth 250
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions packetLossAction none
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions rtcpXr disable
set profiles media packetServiceProfile GOOGLE_PSP rtcpOptions
generateRtcpForT140IfNotReceivedFromOtherLeg disable
set profiles media packetServiceProfile GOOGLE_PSP peerAbsenceAction none
set profiles media packetServiceProfile GOOGLE_PSP silenceInsertionDescriptor
g711SidRtpPayloadType 13
set profiles media packetServiceProfile GOOGLE_PSP silenceInsertionDescriptor heartbeat
enable
set profiles media packetServiceProfile GOOGLE_PSP aal1PayloadSize 47
set profiles media packetServiceProfile GOOGLE_PSP codec codecEntry1 G711-U
set profiles media packetServiceProfile GOOGLE_PSP codec codecEntry2 G711-A
set profiles media packetServiceProfile GOOGLE_PSP codec codecEntry3 OPUS
set profiles media packetServiceProfile GOOGLE_PSP codec codecEntry4 G722
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl transcode
conditional
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec applyFaxToneTreatment disable
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec differentDtmfRelay disable
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec differentPacketSize disable
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec differentSilenceSuppression disable
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec honorOfferPreference disable
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec honorAnswerPreference disable
```

```

set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
conditionsInAdditionToNoCommonCodec different2833PayloadType disable
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
codecsAllowedForTranscoding thisLeg g711a,g711u,g722,opus
set profiles media packetServiceProfile GOOGLE_PSP packetToPacketControl
codecsAllowedForTranscoding otherLeg g711a,g711u,g722,opus
set profiles media packetServiceProfile GOOGLE_PSP flags disallowDataCalls disable
set profiles media packetServiceProfile GOOGLE_PSP flags digitDetectSendEnabled disable
set profiles media packetServiceProfile GOOGLE_PSP flags useDirectMedia disable
set profiles media packetServiceProfile GOOGLE_PSP flags
validatePeerSupportForDtmfEvents disable
set profiles media packetServiceProfile GOOGLE_PSP flags interworkDtmfWithoutTranscoding
disable
set profiles media packetServiceProfile GOOGLE_PSP flags dscpPassthrough disable
set profiles media packetServiceProfile GOOGLE_PSP flags ssrcRandomize disable
set profiles media packetServiceProfile GOOGLE_PSP flags HDCodecPreferred disable
set profiles media packetServiceProfile GOOGLE_PSP flags
MatchOfferedCodecGroupIfNbOnly disable
set profiles media packetServiceProfile GOOGLE_PSP flags forceRoutePSPOrder disable
set profiles media packetServiceProfile GOOGLE_PSP flags
generateAndSignalSSRCAndCname disable
set profiles media packetServiceProfile GOOGLE_PSP flags mediaLockDownForPassThrough
disable
set profiles media packetServiceProfile GOOGLE_PSP flags
reserveBwForPreferredAudioCommonCodec disable
set profiles media packetServiceProfile GOOGLE_PSP flags policeOnHeaviestAudioCodec
disable
set profiles media packetServiceProfile GOOGLE_PSP flags t140Call disable
set profiles media packetServiceProfile GOOGLE_PSP flags
allowAudioTranscodeForMultiStreamCall disable
set profiles media packetServiceProfile GOOGLE_PSP flags vtpSupport disable
set profiles media packetServiceProfile GOOGLE_PSP flags ssrcRandomizeForSrtp enable
set profiles media packetServiceProfile GOOGLE_PSP flags g711T140BaudotAdapt disable
set profiles media packetServiceProfile GOOGLE_PSP flags validateRtpHeader disable
set profiles media packetServiceProfile GOOGLE_PSP t38 dataRateManagementType
type2TransferOfTcf
set profiles media packetServiceProfile GOOGLE_PSP t38 ecm ecmPreferred disable
set profiles media packetServiceProfile GOOGLE_PSP t38
lowSpeedNumberOfRedundantPackets 1
set profiles media packetServiceProfile GOOGLE_PSP t38 maxBitRate 14.4Kbits_s
set profiles media packetServiceProfile GOOGLE_PSP t38 numberOfRedundantPackets 1
set profiles media packetServiceProfile GOOGLE_PSP t38 protocolVersion 0
set profiles media packetServiceProfile GOOGLE_PSP secureRtpRtcp cryptoSuiteProfile
DEFAULT
set profiles media packetServiceProfile GOOGLE_PSP secureRtpRtcp flags allowFallback
disable
set profiles media packetServiceProfile GOOGLE_PSP secureRtpRtcp flags enableSrtp disable

```

```

set profiles media packetServiceProfile GOOGLE_PSP secureRtpRtcp flags
resetROCOOnKeyChange disable
set profiles media packetServiceProfile GOOGLE_PSP secureRtpRtcp flags
resetEncDecROCOOnDecKeyChange disable
set profiles media packetServiceProfile GOOGLE_PSP secureRtpRtcp flags
updateCryptoKeysOnModify disable
set profiles media packetServiceProfile GOOGLE_PSP secureRtpRtcp flags allowPassthru
disable
set profiles media packetServiceProfile GOOGLE_PSP preferredRtpPayloadTypeForDtmfRelay
127
set profiles media packetServiceProfile GOOGLE_PSP videoCalls maxVideoBandwidth 0
set profiles media packetServiceProfile GOOGLE_PSP videoCalls
videoBandwidthReductionFactor 0
set profiles media packetServiceProfile GOOGLE_PSP videoCalls ipv4Tos 0
set profiles media packetServiceProfile GOOGLE_PSP videoCalls ipv6TrafficClass 0
set profiles media packetServiceProfile GOOGLE_PSP videoCalls ieee8021QVlanCos 0
set profiles media packetServiceProfile GOOGLE_PSP videoCalls audioOnlyIfVideolsPrevented
enable
set profiles media packetServiceProfile GOOGLE_PSP qosValues msrpDscp 0
set profiles media packetServiceProfile GOOGLE_PSP qosValues dtlsSctpDscp 0
set profiles media packetServiceProfile GOOGLE_PSP qosValues t140Dscp 0
set profiles media packetServiceProfile GOOGLE_PSP qosValues applicationDscp 0
set profiles media packetServiceProfile GOOGLE_PSP nonRtpStream maxNonRtpBandwidth 0
set profiles media packetServiceProfile GOOGLE_PSP nonRtpStream nonRtpTlsProfileName
defaultTlsProfile
set profiles media packetServiceProfile GOOGLE_PSP audioTransparency
unknownCodecPacketSize 10
set profiles media packetServiceProfile GOOGLE_PSP audioTransparency
unknownCodecBitRate 124
set profiles media packetServiceProfile GOOGLE_PSP mediaPacketCos 0
set profiles media packetServiceProfile GOOGLE_PSP honorRemotePrecedence disable
set profiles media packetServiceProfile GOOGLE_PSP sendRoutePSPPrecedence disable
set profiles media packetServiceProfile GOOGLE_PSP dtls dtlsCryptoSuiteProfile Google
set profiles media packetServiceProfile GOOGLE_PSP dtls dtlsFlags allowDtlsFallback disable
set profiles media packetServiceProfile GOOGLE_PSP dtls dtlsFlags enableDtlsSrtp disable
set profiles media packetServiceProfile GOOGLE_PSP dtls dtlsFlags dtlsSctpRelay disable
set profiles media packetServiceProfile GOOGLE_PSP prohibitedCodecList none
commit

```

7.4.11 Static Route

Configuring static routes for Google CES, OnPrem PBX and PSTN Gateway as shown below.

```

set addressContext default staticRoute 0.0.0.0 0 192.65.X.X LIF2 PKT1_V4
set addressContext default staticRoute 10.64.X.X 16 10.80.X.X LIF1 PKTO_V4
set addressContext default staticRoute 10.80.X.X 16 10.80.X.X LIF1 PKTO_V4
commit

```

7.4.12 Routing Label

Configure Routing Label towards Google CES, OnPrem PBX and PSTN Gateway as shown below.

OnPrem PBX:

```
set global callRouting routingLabel PBX_RL overflowNumber ""
set global callRouting routingLabel PBX_RL overflowNOA none
set global callRouting routingLabel PBX_RL overflowNPI none
set global callRouting routingLabel PBX_RL routePrioritizationType sequence
set global callRouting routingLabel PBX_RL action routes
set global callRouting routingLabel PBX_RL numRoutesPerCall 10
set global callRouting routingLabel PBX_RL routingLabelRoute 0 routeType trunkGroup
set global callRouting routingLabel PBX_RL routingLabelRoute 0 trunkGroup PBX_TG
set global callRouting routingLabel PBX_RL routingLabelRoute 0 ipPeer PBX_IPP
set global callRouting routingLabel PBX_RL routingLabelRoute 0 proportion 0
set global callRouting routingLabel PBX_RL routingLabelRoute 0 cost 1000000
set global callRouting routingLabel PBX_RL routingLabelRoute 0 inService inService
set global callRouting routingLabel PBX_RL routingLabelRoute 0 testing normal
commit
```

PSTN Gateway:

```
set global callRouting routingLabel PSTN_RL overflowNumber ""
set global callRouting routingLabel PSTN_RL overflowNOA none
set global callRouting routingLabel PSTN_RL overflowNPI none
set global callRouting routingLabel PSTN_RL routePrioritizationType sequence
set global callRouting routingLabel PSTN_RL action routes
set global callRouting routingLabel PSTN_RL numRoutesPerCall 10
set global callRouting routingLabel PSTN_RL routingLabelRoute 2 routeType trunkGroup
set global callRouting routingLabel PSTN_RL routingLabelRoute 2 trunkGroup PSTN_TRUNK
set global callRouting routingLabel PSTN_RL routingLabelRoute 2 ipPeer PSTN_IPP
set global callRouting routingLabel PSTN_RL routingLabelRoute 2 proportion 0
set global callRouting routingLabel PSTN_RL routingLabelRoute 2 cost 1000000
set global callRouting routingLabel PSTN_RL routingLabelRoute 2 inService inService
set global callRouting routingLabel PSTN_RL routingLabelRoute 2 testing normal
commit
```

7.4.13 Route

Configure Route settings for PSTN Gateway and OnPrem PBX as shown below.

```
set global callRouting route none Sonus_NULL Sonus_NULL standard 214 1 all all ALL none
Sonus_NULL routingLabel PSTN_RL
set global callRouting route none Sonus_NULL Sonus_NULL standard 972852 1 all all ALL none
Sonus_NULL routingLabel PBX_RL
commit
```

7.4.14 SIP Message Manipulations

Google CES has provided SIP signaling pre-requisites for the SIPREC INVITE sent from Ribbon SWe Core SBC. Below are a few pre-requisites.

- The Request URI and TO header should contain the user part in E.164 format and host part as Google CES FQDN along with Port number.
- Example: sip:+1361880XXXX@us.telephony.goog:5672
- Note: The Phone number present in the Request URI and TO header is obtained from Google CES Project using the “Create Phone Number API”
- The Call-Info header must be sent to Google CES for each call. Below is the requirement for the Call info header.
 - o Syntax:
 - o <http://dialogflow.googleapis.com/v2beta1/projects/customer-project-id/conversations/ConversationID>;purpose=Goog-ContactCenter-Conversation
 - Customer-Project-ID is retrieved while creating a Google CES Project
 - The conversation-id must obey the following two rules:
 - The conversation ID is unique across all the calls
 - The format of the conversation ID should be “[a-zA-Z][a-zA-Z0-9_-]”
- The SIP message must include a Session-Expires header.

7.4.13.1 Rule 1

Rule 1 modifies the Request-URI as per the requirements provided above.

- Rule 1 matches the incoming Request URI string "sip:SIPREC-SRS@74.125.X.X:5672" and replace with "sip:+ 1361880XXXX@us.telephony.goog:5672" for all instances.

```
set profiles signaling sipAdaptorProfile GOOGLE_REC state enabled
set profiles signaling sipAdaptorProfile GOOGLE_REC advancedSMM enabled
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 applyMatchHeader one
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 1 type message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 1 message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 1 message messageTypes
request
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 1 message methodTypes [
cancel invite ack ]
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 2 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 2 header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 2 header name
request-line
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 2 header
numberOfInstances number 1
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 criterion 2 header
numberOfInstances qualifier equal
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 operation regsub
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 headerInfo headerValue
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 from
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 from type value
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 from value
sip:+1361880XXXX@us.telephony.goog:5672
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 to
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 to type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 to value request-line
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 regexp
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 regexp string
sip:SIPREC-SRS@74.125.X.X:5672
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 1 action 1 regexp matchInstance one
commit
```


7.4.13.2 Rule 2

Rule 2 modifies the To header as per the requirements provided above.

- Rule 2 matches the incoming To header string "sip:SIPREC-SRS@74.125.X.X:5672" and replace with "sip:+136188XXXX@us.telephony.goog:5672" for all instances.

```
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 applyMatchHeader one
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 1 type message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 1 message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 1 message
messageTypes request
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 1 message methodTypes
[ cancel invite ack ]
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 2 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 2 header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 2 header name To
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 2 header
numberOfInstances number 1
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 criterion 2 header
numberOfInstances qualifier equal
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 operation regsub
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 headerInfo headerValue
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 from
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 from type value
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 from value
sip:+136188XXXX@us.telephony.goog
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 to
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 to type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 to value to
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 regexp
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 regexp string
sip:SIPREC-SRS@us.telephony.goog
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 2 action 1 regexp matchInstance
one
commit
```

7.4.13.3 Rule 3

- Rule 3 adds Call info header in the required format to the INVITE sent towards Google CES.
- Call-info:
"<http://dialogflow.googleapis.com/v2beta1/projects/ccai-3898XX/conversations/RC_XXXX>
;purpose=Goog-ContactCenter-Conversation"
- RC_XXXX present in Call info header is an expression created to match the regular expression requirement provided by Google.
- XXXX will be replaced with a unique value in Rule 4

```
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 applyMatchHeader one
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 1 type message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 1 message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 1 message
messageTypes request
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 1 message methodTypes
[ invite ]
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 2 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 2 header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 2 header name Call-ID
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 criterion 2 header hdrInstance one
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 operation add
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 headerPosition last
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 from
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 from type value
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 from value
"<http://dialogflow.googleapis.com/v2beta1/projects/ccai-3898XX/conversations/RC_CALLID>;p
urpose=Goog-ContactCenter-Conversation"
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 to
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 to type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 1 to value Call-info
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 operation regstore
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 headerInfo headerValue
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 from
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 from type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 from value Call-ID
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 to
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 to type variable
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 to variableValue var1
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 to variableScopeValue
local
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 regexp
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 regexp string
([a-zA-Z0-9]+)_[a-zA-Z0-9]+_[a-zA-Z0-9]+)
```

```
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 3 action 2 regexp matchInstance  
one  
commit
```

7.4.13.4 Rule 4

- Rule 4 modifies the XXXX parameter present in the Call-info header. The Conversation ID has to be replaced instead of XXXX. In this rule, we collect the Call-ID value and rewrite it to the Conversation ID since it needs to be unique.

```
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 applyMatchHeader one
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 1 type message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 1 message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 1 message
messageTypes request
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 1 message methodTypes
[ invite ]
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 2 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 2 header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 2 header name Call-info
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 criterion 2 header hdrInstance all
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 operation regsub
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 headerInfo headerValue
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 from
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 from type variable
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 from variableValue var1
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 to
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 to type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 to value Call-info
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 regexp
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 regexp string CALLID
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 4 action 1 regexp matchInstance all
commit
```

7.4.13.5 Rule 5

- Rule 5 modifies the Session-Expires header and inserts value 1800;refresher=uac.

```
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 applyMatchHeader one
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 1 type message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 1 message
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 1 message
messageTypes request
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 1 message methodTypes
[ invite ]
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 2 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 2 header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 2 header name
Session-Expires
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 criterion 2 header hdrInstance all
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 operation modify
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 headerInfo headerValue
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 from
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 from type value
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 from value
"1800;refresher=uac"
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 to
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 to type header
set profiles signaling sipAdaptorProfile GOOGLE_REC rule 5 action 1 to value Session-Expires
commit
```

7.4.15 SIP Message Manipulation for Participation Label

- The transcript recording files stored in the Google CES bucket include two participant roles "HUMAN_AGENT" and "END_USER".
- To map the participant roles to the transcripts generated, Google uses the participant labels provided in the Call-info header. Use the below rule only if Participant labels are required.

Call-info header with participant roles:

Call-info:

```
<http://dialogflow.googleapis.com/v2beta1/projects/ccai-3898XX/conversations/RC_XXXX?role
s=HUMAN_AGENT,END_USER>;purpose=Goog-ContactCenter-Conversation
```

Rule 3:

```
set profiles signaling sipAdaptorProfile Google_Participation rule 3 applyMatchHeader one
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 1 type message
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 1 message
```

```

set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 1 message
messageTypes request
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 1 message
methodTypes [ invite ]
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 2 type header
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 2 header
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 2 header name
Call-ID
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 2 header condition
exist
set profiles signaling sipAdaptorProfile Google_Participation rule 3 criterion 2 header
hdrInstance one
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 type header
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 operation add
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 headerPosition last
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 from
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 from type value
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 from value
"<http://dialogflow.googleapis.com/v2beta1/projects/ccai-3898XX/conversations/RC_CALLID>;p
urpose=Goog-ContactCenter-Conversation"
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 to
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 to type header
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 1 to value Call-info
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 type header
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 operation regstore
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 headerInfo
headerValue
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 from
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 from type header
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 from value Call-ID
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 to
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 to type variable
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 to variableValue
var1
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 to
variableScopeValue local
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 regexp
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 regexp string
([a-zA-Z0-9]+)_([a-zA-Z0-9]+)_([a-zA-Z0-9]+)
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 2 regexp
matchInstance one
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 type variable
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 operation append
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 from
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 from type value
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 from value
?roles=HUMAN_AGENT,END_USER

```

```
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 to
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 to type variable
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 to variableValue
var1
set profiles signaling sipAdaptorProfile Google_Participation rule 3 action 3 to
variableScopeValue local
commit
```

7.4.16 SRS Group profile

Configure SRS Group profile as shown below.

```
set global servers srsGroupProfile SRSGROUP description SRSGROUP_FOR_GoogleCCAI
set global servers srsGroupProfile SRSGROUP loadDistribution sequence
set global servers srsGroupProfile SRSGROUP numSimultaneousStream 1
set global servers srsGroupProfile SRSGROUP srsGroupData 0 transport tls
set global servers srsGroupProfile SRSGROUP srsGroupData 0 fqdn us.telephony.goog
set global servers srsGroupProfile SRSGROUP srsGroupData 0 fqdnPort 5671
set global servers srsGroupProfile SRSGROUP srsGroupData 0 ipTgId GOOGLE_TG
set global servers srsGroupProfile SRSGROUP srsGroupData 0 srtp enable
set global servers srsGroupProfile SRSGROUP srsGroupData 0 cryptoSuiteProfile DEFAULT
commit
```

7.4.17 SRS Group Cluster

Configure SRS Group Cluster as shown below.

```
set global servers srsGroupCluster SRSGRP1 description ""
set global servers srsGroupCluster SRSGRP1 minRecordingsCriteria minRecordingSession 0
set global servers srsGroupCluster SRSGRP1 minRecordingsCriteria
siprecEstablishmentTimeout 60
set global servers srsGroupCluster SRSGRP1 minRecordingsCriteria
siprecReEstablishmentTimeout 0
set global servers srsGroupCluster SRSGRP1 srsGroupClusterData 0 srsGroupId SRSGROUP
commit
```

7.4.18 Call Recording criteria

Configure Call Recording criteria towards OnPrem PBX and PSTN Gateway as shown below.

```
set global servers callRecordingCriteria PBX_to_PSTN srsGroupClusterId SRSGRP1
set global servers callRecordingCriteria PBX_to_PSTN ingressTgId PBX_TG
set global servers callRecordingCriteria PBX_to_PSTN egressTgId PSTN_TRUNK
set global servers callRecordingCriteria PBX_to_PSTN nextHopIP 0.0.0.0
set global servers callRecordingCriteria PBX_to_PSTN previousHopIP 0.0.0.0
set global servers callRecordingCriteria PBX_to_PSTN recordingType allLegs
set global servers callRecordingCriteria PBX_to_PSTN recorderType SIPRec
set global servers callRecordingCriteria PBX_to_PSTN criteriaState enable
commit
```

```
set global servers callRecordingCriteria PSTN_to_PBX srsGroupClusterId SRSGRP1
set global servers callRecordingCriteria PSTN_to_PBX ingressTgId PSTN_TRUNK
set global servers callRecordingCriteria PSTN_to_PBX egressTgId PBX_TG
set global servers callRecordingCriteria PSTN_to_PBX nextHopIP 0.0.0.0
set global servers callRecordingCriteria PSTN_to_PBX previousHopIP 0.0.0.0
```



```
set global servers callRecordingCriteria PSTN_to_PBX recordingType allLegs
set global servers callRecordingCriteria PSTN_to_PBX recorderType SIPRec
set global servers callRecordingCriteria PSTN_to_PBX criteriaState enable
commit
```

7.4.19 SIPREC using TLS as Transport

7.4.19.1 TLS – Certificate Record

- Login to Ribbon SWe Core SBC via Management IP <https://x.x.x.x/>
- Create a Certificate record for Ribbon SWe Core SBC as shown below.
- Navigate to Configuration Security Configuration PKI Certificate
- Click on +New Certificate

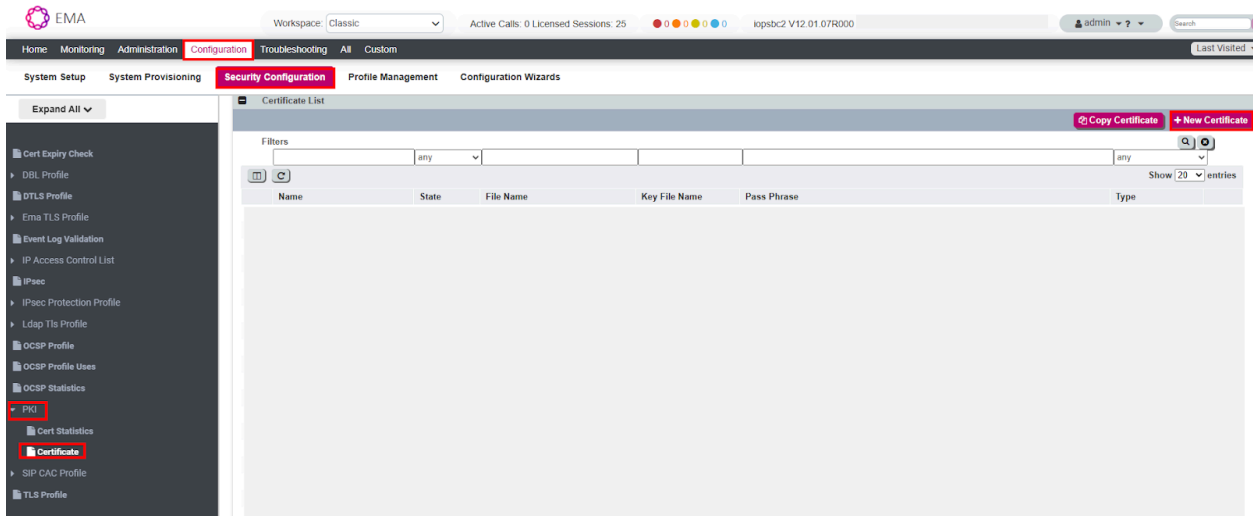


Figure 3 : Ribbon SWe Core SBC certificate creation

- Configure the Name as Google_Regression and Type as Local-internal and Click on Save

The screenshot shows the 'Create New Certificate' form. The 'Name' field is set to 'Google_Regression' (up to 23 characters). The 'State' field is set to 'Disabled' (radio buttons). The 'File Name' field is empty (up to 255 characters). The 'Pass Phrase' field is empty. The 'Type' field is set to 'Local-internal'. A 'Save' button is visible in the top right corner.

Figure 4: Ribbon SWe Core SBC certificate creation (Cont.)

- Navigate to the created certificate on the Certificate List.
- Select “Generate CSR” in Certificate Commands and Click on Select.

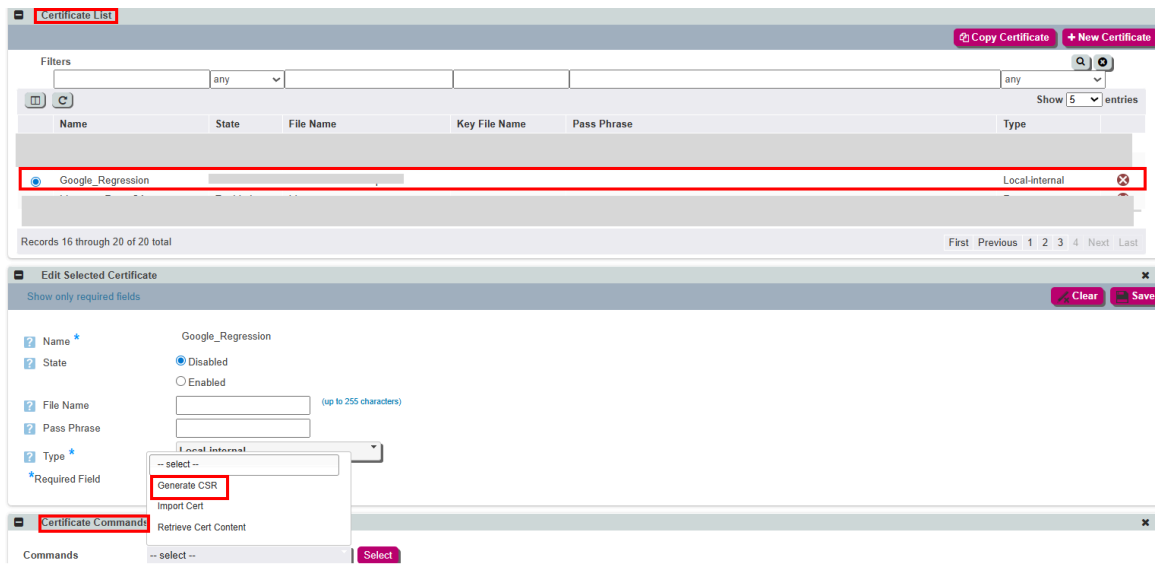


Figure 5: Generate CSR for Ribbon SWe Core SBC

- Select the Key Size as “Key Size2K”
- Csr Subscription: Input the Ribbon SWe Core SBC FDQN which is required to negotiate the TLS connection with Google CES, Type “/CN=sbc8.tekvizionlabs.com”.
- Click on generateCSR.

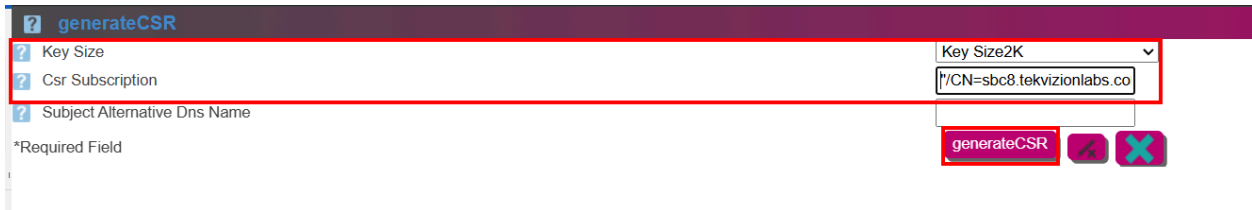


Figure 6 : Generate CSR for Ribbon SWe Core SBC (Cont.)

- Get the CSR signed by CAs.

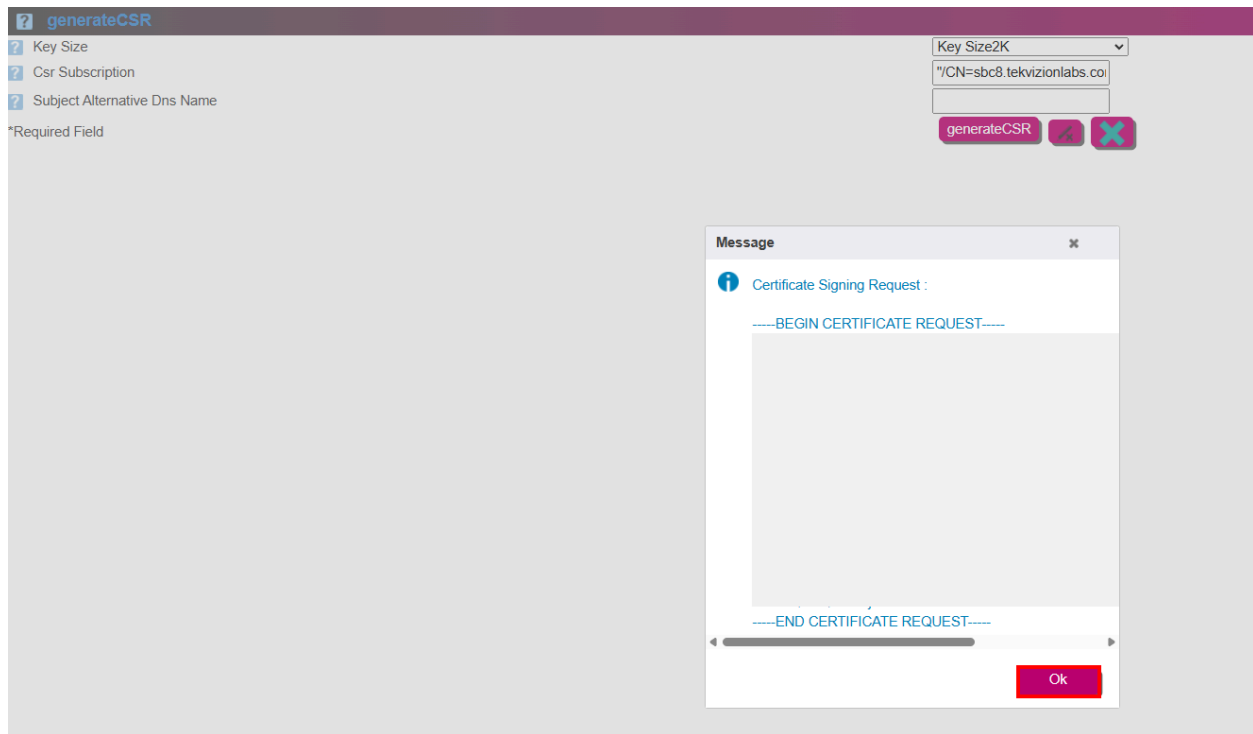


Figure 7: Generate CSR for Ribbon SWe Core SBC (Cont.)

7.4.19.2 Certificate Upload

- Visit Google certificate link via <https://pki.goog/roots.pem> and download the roots PEM file.
- Open the PEM file using notepad and copy the certificate under label "GTS Root R1"
- Navigate to Administration > System Administration > File Upload
- Click on "Add Files to Queue" and select the Ribbon SWe Core certificate, GTS Root R1 and Intermediate certificate.

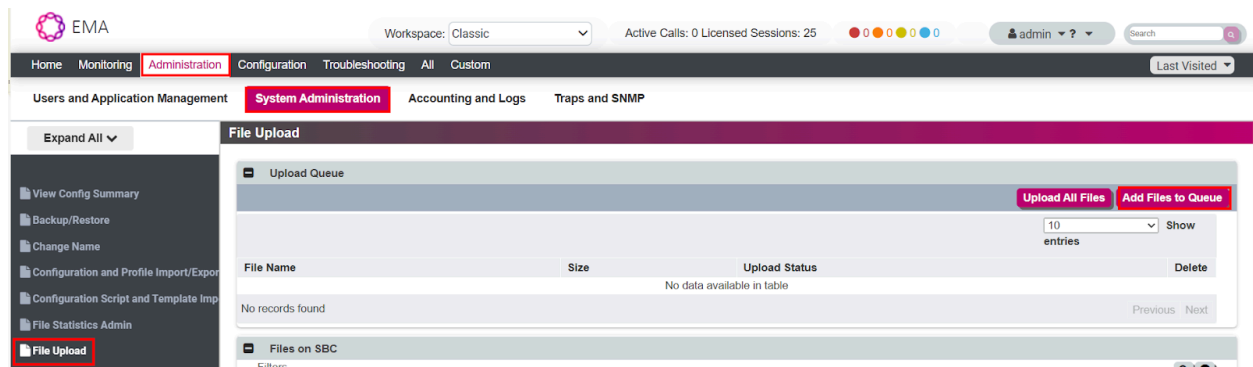


Figure 8: Certificate Upload

- Once the required certificates are selected, click on “Upload All Files”

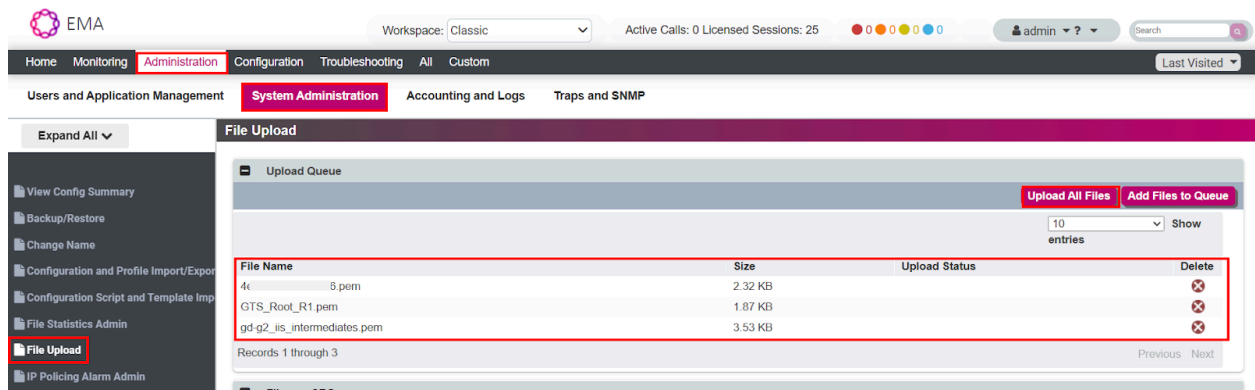


Figure 9 : Certificate Upload (Cont.)

7.4.19.3 Enable the Ribbon SWe Core SBC and Intermediate Certificates

```
set system security pki certificate Google_Regression state enabled
set system security pki certificate Google_Regression fileName 4xxxxx6.pem
set system security pki certificate Google_Regression type local-internal
commit
```

```
set system security pki certificate Intermediate state enabled
set system security pki certificate Intermediate fileName gd-g2_iis_intermediates.pem
set system security pki certificate Intermediate type remote
commit
```

7.4.19.4 Enable the Google CES Root Certificate

```
set system security pki certificate GTSrootR1 state enabled
set system security pki certificate GTSrootR1 fileName GTSrootR1.pem
set system security pki certificate GTSrootR1 type remote
commit
```

7.4.19.5 TLS Profile

- A TLS profile configuration names on the Ribbon SWe Core SBC are configured as shown below.
- Input the clientCertName and serverCertName as “Google_Regression”
- TLS version v1.3 is enabled.

```
set profiles security tlsProfile TLS_PROF appAuthTimer 5
set profiles security tlsProfile TLS_PROF handshakeTimer 5
set profiles security tlsProfile TLS_PROF sessionResumpTimer 3600
set profiles security tlsProfile TLS_PROF cipherSuite1 tls_aes_256_gcm_sha384
set profiles security tlsProfile TLS_PROF cipherSuite2 nosuite
set profiles security tlsProfile TLS_PROF clientCertName Google_Regression
set profiles security tlsProfile TLS_PROF serverCertName Google_Regression
set profiles security tlsProfile TLS_PROF v1_0 disabled
set profiles security tlsProfile TLS_PROF v1_1 disabled
set profiles security tlsProfile TLS_PROF v1_2 disabled
set profiles security tlsProfile TLS_PROF v1_3 enabled
set profiles security tlsProfile TLS_PROF hashType sha512
commit
```

8 SIP INVITE To Google CES

8.1 SIP INVITE for SIPREC call

```
INVITE sip:+13618[redacted]@us.telephony.goog:5672 SIP/2.0
Via: SIP/2.0/TLS 192.65.[redacted]:5061;branch=z9hG4bK08B000bd8d1cb4ef53c
From: "SIPREC-SRC" <sip:SIPREC-SRC@192.65.[redacted]>;tag=gK08000530
To: "SIPREC-SRS" <sip:+13618[redacted]@us.telephony.goog>
Call-ID: 524289_16777221_61865659@192.65.[redacted]
CSeq: 997972 INVITE
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,REGISTER,REFER,INFO,SUBSCRIBE,NOTIFY,PRACK,
UPDATE,OPTIONS,MESSAGE,PUBLISH
Accept: application/sdp, application/rs-metadata-request, application/rs-
Contact: "SIPREC-SRC" <sip:SIPREC-SRC@192.65.[redacted]:5061;transport=tls>
Require: siprec
Supported: timer,100rel
Session-Expires: 1800;refresher=uac
Min-SE: 90
Content-Length: 3407
Content-Type: multipart/mixed;boundary=sonus-content-delim
MIME-Version: 1.0
Call-info: <http://dialogflow.googleapis.com/v2beta1/projects/ccai-389[redacted]/conversations/
RC_52[redacted]59>;purpose=Goog-ContactCenter-Conversation

--sonus-content-delim
Content-Disposition: session; handling=required
Content-Length: 584
Content-Type: application/sdp

v=0
o=Sonus_UAC 969504 806052 IN IP4 192.65.[redacted]
s=SIP Media Capabilities
t=0 0
m=audio 1034 RTP/SAVP 0 101
c=IN IP4 192.65.[redacted]
a=label:1
a=crypto:1 AES_CM 128_HMAC_SHA1_80 inline:jTBqnXEXebV1lPGFSLkqc3g7OoAaU+L6xNFWp8d8
a=rtptime:0 PCMU/8000
a=rtptime:101 telephone-event/8000
a=fmtp:101 0-15
a=sendonly
a=maxptime:20
m=audio 1032 RTP/SAVP 0 10
c=IN IP4 192.65.[redacted]
a=label:2
a=crypto:1 AES_CM 128_HMAC_SHA1_80 inline:jTBqnXEXebV1lPGFSLkqc3g7OoAaU+L6xNFWp8d8
a=rtptime:0 PCMU/8000
a=rtptime:101 telephone-event/8000
a=fmtp:101 0-15
a=sendonly
a=maxptime:20
```

The INVITE Request-URI should include e.164 number obtained from Google and it should have respective regional host name with SIP Signaling port :5672

Google requires the Call-info header, and it must contain a conversation ID. The conversation ID is unique, and the format of the conversation ID follows the regex "[a-zA-Z][a-zA-Z0-9_]" and is assigned for each call.

dialogflow.googleapis.com/v2beta1 - API endpoint
projects/ccai-3898XX - Google Cloud CCAI project ID
conversations/RC_xxxx - The unique conversation session ID that is assigned for that each call

The connection IP toward Google CCAI must be a public IP, not a private one.

For SIPREC, there can be single media lines with a=sendonly, for GTP there will be a multiple media line with a=sendrecv
Encrypted SRTP and the allocated port range should be used (Port: 16384-32767) else CES will not receive audio.

It must be a supported crypto suite by Google.

Figure 10: SIPREC Call

8.2 SIP INVITE for GTP call

```
INVITE sip:+13149[redacted]@us.telephony.goog:5672 SIP/2.0
Via: SIP/2.0/TLS 192.65.[redacted]:5061;branch=z9hG4bK04B00ccdb1bec47[redacted]
From: "Abhishanth Saya" <sip:214242[redacted]@us.telephony.goog>;tag=gK0400395a
To: <sip:+131494[redacted]@us.telephony.goog:5672>
Call-ID: 262170_60813659@192.65.[redacted]
CSeq: 710615 INVITE
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,REGISTER,REFER,INFO,SUBSCRIBE,NOTIFY,PRACK,
UPDATE,OPTIONS,MESSAGE,PUBLISH
Accept: application/sdp, application/isup, application/dtmf, application/dtmf-relay
multipart/mixed
Contact: "Abhishanth Saya" <sip:214242[redacted]@192.65.[redacted]:5061;transport=
P-Asserted-Identity: "Abhishanth Saya" <sip:+1214242[redacted]@192.65.[redacted]>
Supported: timer,100rel,precondition,replaces
Session-Expires: 1800;refresher=uac
Min-SE: 90
Content-Length: 513
Content-Disposition: session; handling=required
Content-Type: application/sdp
Call-info: <http://dialogflow.googleapis.com/v2beta1/projects/ccai-389[redacted]/conversations/
RC_2[redacted]>;purpose=Goog-ContactCenter-Conversation

v=0
o=Sonus_UAC 403113 318924 IN IP4 192.65.[redacted]
s=SIP Media Capabilities
c=IN IP4 192.65.[redacted]
t=0 0
m=audio 1292 RTP/SAVP 0 8 111 9 101
a=crypto:1 AES_CM_128_HMAC_SHA1_80 inline qbuXZck76goDgXRRk+KAWRxxwCBugipoEhux6cd5g
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:111 opus/48000/2
a=fmtp:111 maxplaybackrate=8000; sprop-maxcapture=8000; minptime=10; maxaveragebitrate=20000
a=rtpmap:9 G722/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
a=maxptime:20
a=rtcp-mux
```

The INVITE Request-URI should include e.164 number obtained from Google and it should have respective regional host name with SIP Signaling port :5672

Google requires the Call-Info header, and it must contain a conversation ID. The conversation ID is unique, and the format of the conversation ID follows the regex "[a-zA-Z][a-zA-Z0-9_]*" and is assigned for each call.

dialogflow.googleapis.com/v2beta1 - API endpoint
projects/ccai-3898XX - Google Cloud CCAI project ID
conversations/OR_xxxx - The unique conversation session ID that is assigned for that each call

The connection IP toward Google CCAI must be a public IP, not a private one.

It must be a supported crypto suite by Google.

For GTP, there can be single media lines with a=sendrecv, for SIPREC there will be a multiple media line with a=sendonly
Encrypted SRTP and the allocated port range should be used (Port: 16384-32767) else CES will not receive audio.

Figure 11: GTP call

9 Summary of Tests and Results

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
SBC Configuration Verification					
1	SBC Configuration Verification	TLS connection setup. SBC initiates TLS connection with CES	Successful 4way handshake with Google CES. Validate the right certificates are being negotiated. SBC should be loaded with GTSR1 cert for Google. SBC should also send the certificate chain when sending its cert.	PASSED	Three-way handshake is verified
2	SBC Configuration Verification	TCP Keep Alive. SBC will perform monitoring checks by attempting TCP Keep Alive to ensure Network Connectivity	Successful 3way handshake and thereafter termination	PASSED	
3	SBC Configuration Verification	TCP link is persistent. Establish call, send multiple calls that should all use the same TCP transport connection	Persistent TCP connection, we should establish a single connection and	PASSED	

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
			multiplex all calls over that connection.		
4	SBC Configuration Verification	Session Timer support. SBC should be initiator for the Session Refresh timer using Update or Re-Invite	Every 900 secs the SBC should refresh the SIP session.	PASSED	re-INVITE is sent for Session refresh
5	SBC Configuration Verification	SIP Header Manipulation (call-info header)	Validate if the Google requested header manipulation is present in the SIP INVITE. Ensure every SDP media has a label.	PASSED	
6	SBC Configuration Verification	*SBCs may need further Header manipulations based on SIP stack constraints. Verify required manipulation are added in SBC to support Google CES Example: FROM, TO header manipulations HOST part change in headers etc.,	All signaling in e.164 format	PASSED	

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
7	SBC Configuration Verification	SDES for SRTP. Configure the SDES parameters for crypto negotiation for the BYOT trunk	Validate the crypto is successfully negotiated and media is encrypted. All SBCs should support SDES for media encryption.	PASSED	
8	SBC Configuration Verification	DTLS for Media Encryption. Configure the DTLS parameters for crypto negotiation for the BYOT trunk, certificate for DTLS must be self-signed by the SBC.	Validate the crypto is successfully negotiated and media is encrypted.	NOT SUPPORTED	
Inbound					
9	SIP OPTIONS	SBC send SIP options every 60 seconds	Verify SBC sends SIP OPTIONS every 60 seconds and responded with 200 OK	PASSED	
10	Inbound	Inbound call: Calling Party disconnects the call. Inbound siprec call, ensure recording are	Verify Call is established with audio and transcripts from both	PASSED	

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
		present, disconnect call from calling party and confirm proper disconnect	participants Verify call is disconnected properly		
11	Inbound	Inbound call: Called Party disconnects the call. Inbound siprec call, ensure recording are present, disconnect call from called party and confirm proper disconnect	Verify Call is established with audio and transcripts from both participants Verify call is disconnected properly	PASSED	
12	Inbound	Long duration call-Outbound Call- 1 hour max. Long duration siprec call	Ensure siprec calls stay up for an hour, confirm transcripts are present for entire duration	PASSED	
13	Inbound	Long duration hold and resume (wait until session audit\session refresh occurs from DUT). Long duration siprec call, have the call placed on hold by agent, have call resume. Have customer place on hold then	Call is connected, we have two active streams, confirm once a stream goes on hold, we receive corresponding signaling events, and	PASSED	

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
		have call resume.	that we no longer record transcripts for the participant on hold.		
14	Inbound	Handling Error codes 603 decline. User A Calls PSTN A PSTN A rejects the incoming call	Verify SBC handles Call rejected properly	PASSED	
15	Inbound	Inbound call hold scenarios. Call starts out inactive for both participants, session moves to active	Validate if media is present when expected, confirm signaling events modify sdp properly, once call is move to active validate media and transcripts	PASSED	Call recording is deactivated using API command. Audio during the inactive state is not recorded.
16	Inbound	Inbound call hold scenarios. call starts out as active for both participants and making the Deactivate/Activate Conversation via grpc api.	Validate if media should not be present when activated and conversation starts to happen after deactivation. Confirm signaling	PASSED	Recording was not present after deactivating conversation and recording resumed after activating conversation via API.

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
			events and validate media and transcripts		
17	Inbound	Update. Validate that update sent prior to call establishment do not contain SDP	Validate that update prior to call establishment do not contain SDP as expected	NOT APPLICABLE	Update is not sent, rather re-INVITE message is sent from Ribbon SBC every 900 seconds without SDP.
18	Inbound	Update. Validate that updates post call establishment contain SDP to modify session	If SBC uses update to modify session, ensure SDP is included	NOT APPLICABLE	re-INVITE message is sent from Ribbon SBC every 900 seconds without SDP
19	Inbound	re-invites. Ensure re-invites that modify session include SDP	Ensure re-invites that modify session include SDP	PASSED	re-INVITE is sent to Google CES as part of session refresh, hold scenarios
20	Inbound	Codec negotiation. Ensure that g711 u-law is preferred codec	Ensure we can prioritize g711 as preferred codec, note where SBC configures preferred codec	PASSED	
21	Inbound	3 way conference. Determine requirements, record all leg.	Determine requirements, record all legs	PASSED	

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
22	Inbound	CES cloud project setup. Establish CES cloud project, provision the project with a GTP phone number for access (Create conversations/p participants on the fly through SIP headers)	Verify project is setup, functional test to confirm you can connect to the GTP access phone number	PASSED	
23	Inbound	CES cloud project setup. Establish CES cloud project, provision the project with a GTP phone number for access (Pre-creation of conversations/p participants)	Verify project is setup, functional test to confirm you can connect to the GTP access phone number	NOT APPLICABLE	This test case is not applicable for call recording.
24	Inbound	Consultative transfer. Consultative transfer from 1. PSTN > User1 > User2 2. PSTN > User1 > PSTN user2		PASSED	
25	Inbound	Blind transfer. Blind transfer from 1. PSTN > User1 > User2 2. PSTN > User1 > PSTN user2		PASSED	

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
26	Validate Provisioning of trunk using self service	Validate Provisioning of trunk using self service	Use documentation to build trunk using self service model	PASSED	
27	Inbound	Inbound call hold scenarios using a-law	Validate if media is present when expected, confirm signaling events modify sdp properly, once call is move to hold active validate media and transcripts	PASSED	
28	Inbound	Inbound call: Called Party disconnects the call. using a a-law codec	"Verify Call is established with audio and transcripts from both participants Verify call is disconnected properly Validate media stays in region"	PASSED	

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
29	Inbound	Long duration call-Outbound Call- 1 hour max using a-law codec	Ensure siprec calls stay up for an hour, confirm transcripts are present for entire duration.	PASSED	re-INVITE message is sent from Ribbon SBC to Google CES every 15minutes (900 seconds)
30	Inbound	Inbound call: Configure trunk in non default region,	Verify Call is established with audio and transcripts from both participants Verify call is disconnected properly Validate media stays in region	PASSED	Testing is conducted in the US region
31	Outbound	Participant Labels test	Configure call info header to specify roles, ensure the media streams align, Frist media stream HUMAN_A GENT role and Second is END_USER.	PASSED	<p>When the roles are set to "HUMAN AGENT" and "END USER," (<<a ;purpose='Goog-ContactCenter-Conversation"' href="http://dialogflow.googleapis.com/v2beta1/projects/ccai-3898XX/conversations/RC_XXXX?roles=HUMAN_AGENT,END_USER">http://dialogflow.googleapis.com/v2beta1/projects/ccai-3898XX/conversations/RC_XXXX?roles=HUMAN_AGENT,END_USER";purpose=Goog-ContactCenter-Conversation) the transcript shows the first media stream with the participation role as "HUMAN AGENT," followed by "END USER."</p> <p>The transcript indicates that HUMAN AGENT was listed first, followed by the END USER, in 6 out of 10 attempts.</p>

ID	Title	Description	Expected Results	Status (Passed or Failed etc)	Observations
32	Inbound	DTLS test		NOT SUPPORTED	
33	Inbound	Conference TEST	Determine requirements, record all legs	PASSED	
34	Inbound	Validate Call recording	Verify call recording is recorded throughout the call	PASSED	